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NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN

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PLOTTED BY	kingk				١ ''	WASH	
DESIGNED BY	KING/SCHILPEROORT					IUMBER	
ENTERED BY	K. KING				19Y	007	
CHECKED BY	K. KING				CONTR	RACT NO.	LOCATION NO.
PROJ. ENGR.	A. BYRD						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY	1		

 	Washington State Department of Transportation

	Plot 33
I-90	PLAN REF NO
CABIN CREEK I/C TO W EASTON I/C	IN33
PHASE 3 - ADD LANES/WILDLIFE BRIDGES	SHEET 1526 OF
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004 005	WS1 - WS2	WALLS CW1-CW4 & CE1-CE4 - CEDAR CREEK BRIDGES
864 - 865	VVS1 - VVS2	CEDAR CREEK WALL PLAN & PROFILE
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NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN

FILE NAME	N.14522011090106736_Phase 31	Design_CAD_Sneets\010-index\XL5479_PS_in.agn						i
TIME	2:02:38 PM				REGION NO.	STATE	FED.AID PROJ.NO.	
DATE	2/15/2022					WASH		
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PROJ. ENGR.	A. BYRD							DA
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY	1			P.E. STAMP BOX

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Washington State Department of Transportation

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CABIN	CREEK	I/C	то	W	EASTON I/C
PHASE	3 - ADD	LAN	IES/W	/ILDI	LIFE BRIDGES

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Plot 34 PLAN REF NO IN34

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1081	TD1	UTILITY TRENCH DETAILS
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1084 - 1089	TD4 - TD9	ITS - EQUIPMENT HUT
1090 1091	TD10 TD11	ITS - WIRING DIGRAMS FIBER & UTILITY VAULT LOCATIONS
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		CEDAR CREEK BRIDGE WB			
1137	INB2	INDEX BRIDGE			
1138 - 1166	BB1 - BB29	CEDAR CREEK WESTBOUND BRIDGE PLANS			
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1167 - 1170	IN25 - IN28	INDEX			
1171	CT7	CERTIFICATION SHEET			
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		TELEPHONE CREEK BRIDGE			
1172	INB3	INDEX BRIDGE			
1173 - 1200	BC1 - BC28	TELEPHONE CREEK BRIDGE PLANS			
		HUDSON CREEK BRIDGE EB			
1201	INB4	INDEX BRIDGE			
1202 - 1266	BD1 - BD65	HUDSON CREEK EASTBOUND BRIDGE PLANS			
		HUDSON CREEK BRIDGE WB			
1267	INB5	INDEX BRIDGE			
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1307	INB6	INDEX BRIDGE			
1308 - 1361	BF1 - BF54	UNNAMED CREEK (MP 67.1) EASTBOUND BRIDGE PLANS			

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN

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DESIGNED BY	KING/SCHILPEROORT					NUMBER	
ENTERED BY	K. KING				19Y	007	
CHECKED BY	K. KING				CONTI	RACT NO.	LOCATION NO.
PROJ. ENGR.	A. BYRD						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

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		Washington State Department of Transportation
DATE	DATE	

	Plot 35
I-90	PLAN REF NO
CABIN CREEK I/C TO W EASTON I/C	IN35
PHASE 3 - ADD LANES/WILDLIFE BRIDGES	SHEET 1528 OF
INDEX	1783 SHEETS

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1455 - 1458 1459 - 1464	WOC1 - WOC4 WOC5 - WOC10	WILDLIFE OVERCROSSING MISC. DETAILS ARCHITECTURAL DETAILS		
1465	INB9	WILDLIFE UNDERCROSSING (MP 68.8) BRIDGE EB INDEX BRIDGE		
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1698	SB1	SIGN STRUCTURES CANTILEVER SIGN STRUCTURE GENERAL NOTES		
1699 - 1703	SB2 - SB6	CANTILEVER SIGN STRUCTURE GENERAL NOTES CANTILEVER NO.1 - NO.5 LAYOUT		
1704 - 1705	SB7 - SB8	CANTILEVER NO.1 - NO.3 LA 1 OUT CANTILEVER 1, 2, 3, 4, 5 STRUCTURAL DETAILS		
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DATE

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN

FILE NAME	K:\452201\090\06736_Phase 3\	Design_CAD_Sheets\010-Index\XL5479_PS_IN.dgn					
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DESIGNED BY	KING/SCHILPEROORT					IUMBER	
ENTERED BY	K. KING				19Y	007	
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PROJ. ENGR.	A. BYRD						
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY			

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	Washington State Department of Transportation
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I-90						
CABIN CREEK I/C TO W EASTON I/C						
PHASE	3 - ADD	LAN	ES/W	/ILDI	LIFE BRIDGES	

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Plot 36

PROJECT LICENSED PROFESSIONAL CERTIFICATES

Bijan Khaleghi	Add Mann	B.all	MATHEW J. ROCHON
Bijan Khaleghi	Anthony Mizumori	Brian Aldrich	rochonm@wsdot.wa.gov
Feb 16, 2022	Feb 16, 2022	Feb 16, 2022	Feb 16, 2022
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
Muhal P. Jellen A			
Richard Zeldenrust			
Feb 16, 2022			
AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.	AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.
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NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

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1532 1533 1534 1535 1536	INB10 BJ1 BJ2 BJ3	WILDLIFE UNDERCROSSING (MP 68.8) BRIDGE WB INDEX BRIDGE LAYOUT GENERAL NOTES AND GEOMETRIC DATA
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1537	BJ6	PIER 2 SHAFT DETAILS
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1541 - 1542	BJ10 - BJ11	PIER 2 COLUMN DETAILS
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1565	BJ34	BEARING DETAILS
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1566	BJ35	FRAMING PLAN
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1567	BJ36	TYPICAL SECTION
1568 - 1572	BJ37 - BJ41	WF74G GIRDER DETAILS
1573	BJ42	END DIA PHRAGM DETAILS
1574	BJ43	INTERMEDIATE DIPHRAGM DETAILS
1575 - 1576	BJ44 - BJ45	BRIDGE DECK REINFORCEMENT PLAN BOTTOM MAT DETAILS
1577 - 1578	BJ46 - BJ47	BRIDGE DECK REINFORCEMENT PLAN TOP MAT DETAILS
1377 - 1370	D040 - D047	DINDOL DECK NEINFONCEMENT FLATT FOR IVAT DETAILS
1579 - 1580	BJ48 - BJ49	BRIDGE DECK REINFORCEMENT SECTION DETAILS
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1581 - 1583	BJ50 - BJ52	TRAFFIC BARRIER DETAILS
1584 - 1586	BJ53 - BJ55	BRIDGE APPROACH SLAB DETAILS
1587	BJ56	ARCHITECTURAL TREATMENT
1588	BJ57	BARLIST
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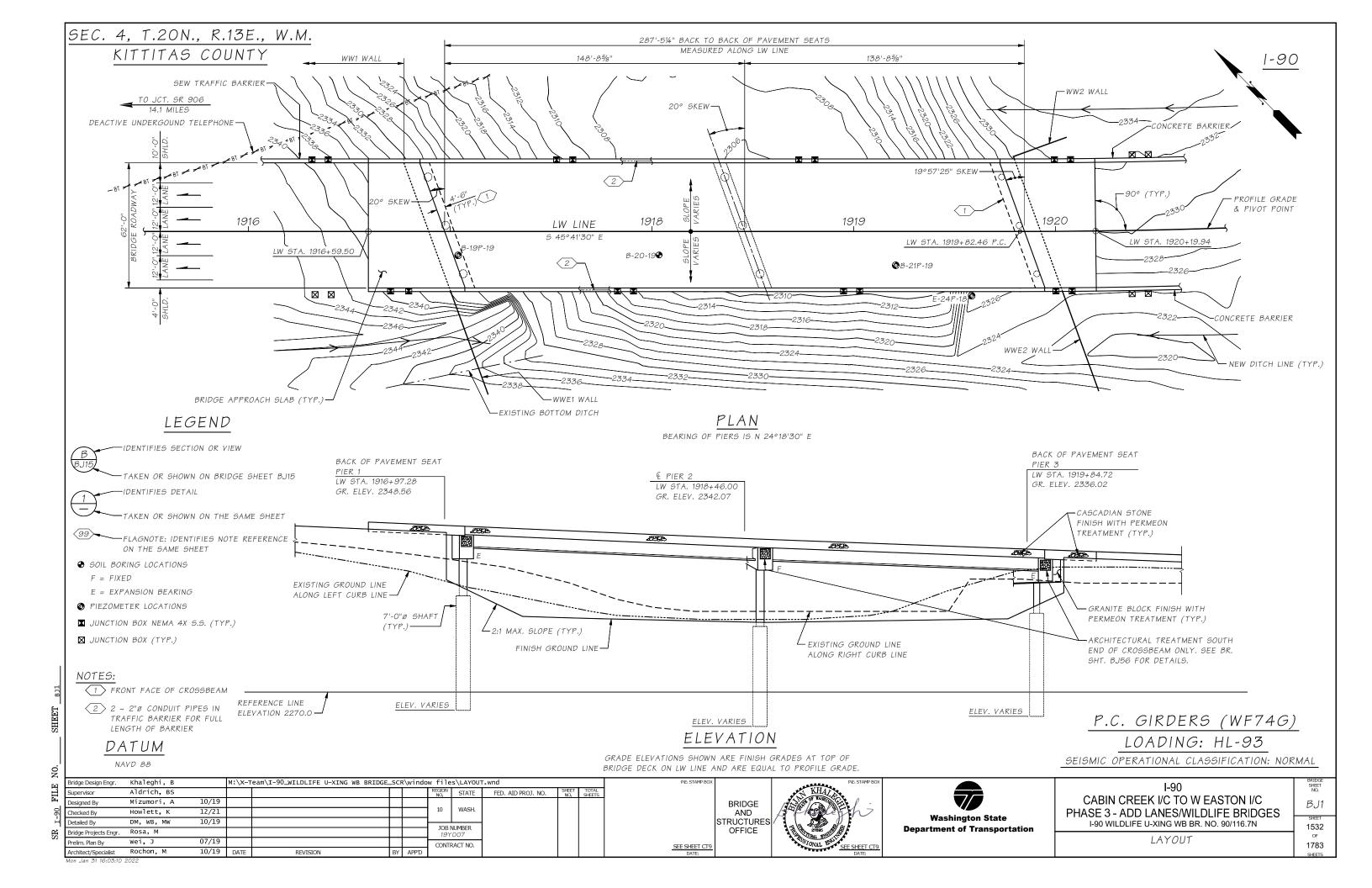
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Department of Transportation DATE DATE

	Plot 11
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CABIN CREEK I/C TO W EASTON I/C	INB10
PHASE 3 - ADD LANES/WILDLIFE BRIDGES	SHEET 1531 OF
INDEX BRIDGE	1783 SHEETS

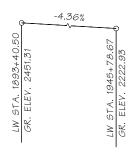
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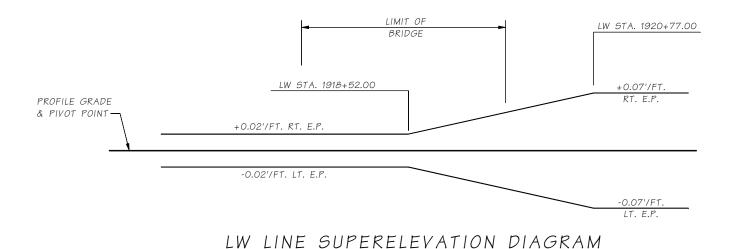
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GENERAL NOTES

- 1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022.
- 2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 35 POUNDS PER SQUARE FOOT. THE BRIDGE TRAFFIC BARRIERS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS FOR TEST LEVEL 5 (TL-5) RAILINGS.
- 3. THE SEIGMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEIGMIC BRIDGE DESIGN 2ND EDITION 2011 WITH INTERIM THROUGH 2015, USING SEIGMIC DESIGN CATEGORY C, SITE CLASS D, A PEAK GROUND ACCELERATION OF 0.23, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.512 AND 0.153, RESPECTIVELY, ON SITE CLASS B.
- 4. THE CONCRETE IN BRIDGE DECKS SHALL BE CLASS 4000DSNF. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. THE CONCRETE IN SHAFTS SHALL BE CLASS 5000P. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- 5. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-09.3(1)E.
- 6. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 1" AT THE BOTTOM OF THE BRIDGE DECK AND 2" AT ALL OTHER LOCATIONS.
- 7. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- 8. CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.
- 9. SNOW ACCUMULATION ON COMPLETED BRIDGE DECKS THAT ARE CLOSED TO TRAFFIC SHALL NOT EXCEED 4'-O" DEPTH. ANY SNOW REMOVAL EQUIPMENT USED ON BRIDGE DECKS SHALL NOT EXCEED LEGAL LOAD LIMITS.



<u>LW LINE</u> PROFILE



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Architect/Specialist			DATE	REVISION	BY	APP'D]					ĺ



BRIDGE AND

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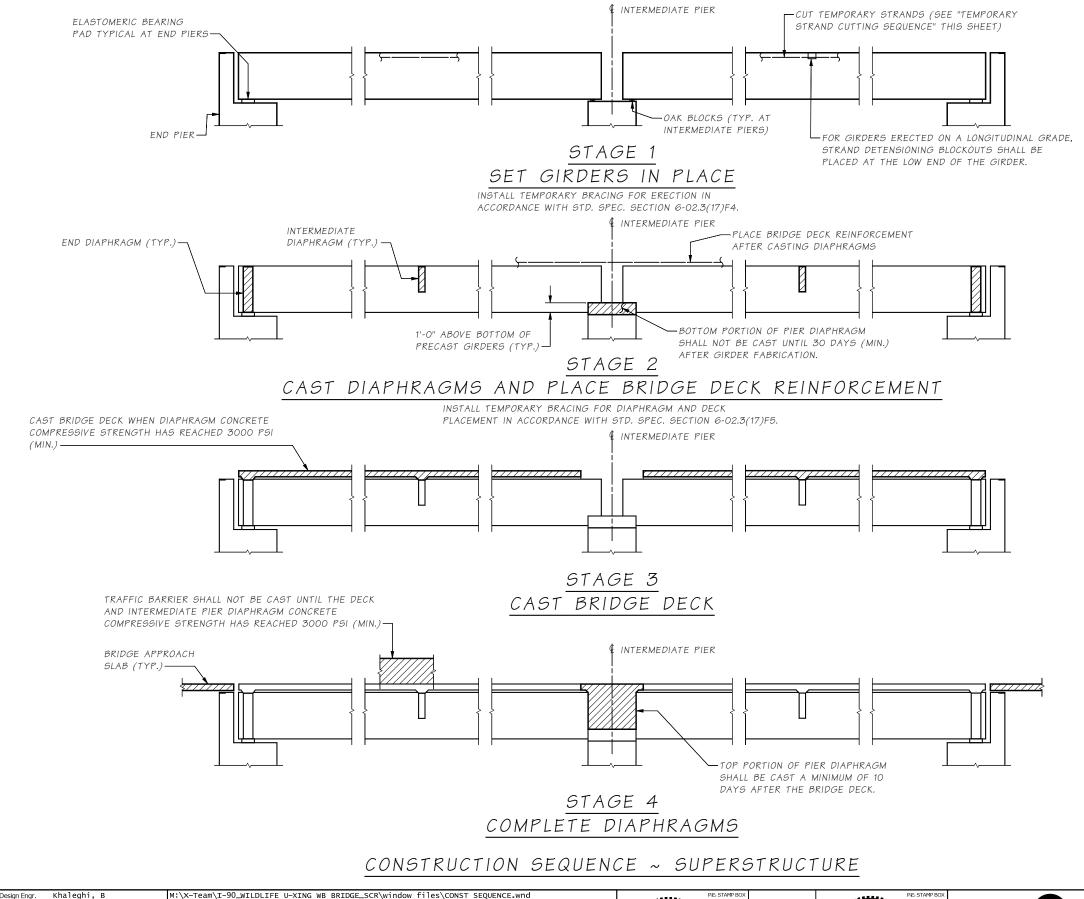




I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

GENERAL NOTES AND GEOMETRIC DATA

1783



TEMPORARY STRAND CUTTING SEQUENCE

- 1. ERECT AND BRACE GIRDERS.
- 2. JUST PRIOR TO CUTTING THE TEMPORARY STRANDS, REMOVE EXPANDED POLYSTYRENE IN BLOCKOUTS IN TOP FLANGE OF GIRDERS. ONCE THE EXPANDED POLYSTYRENE HAS BEEN REMOVED FROM THE STRAND DETENSIONING BLOCKOUT, PREVENT MOISTURE FROM ENTERING THE BLOCKOUT UNTIL THE TEMPORARY TOP STRAND IS CUT AND THE BLOCKOUT FILLED WITH GROUT.
- 3. CUT STRANDS IN BLOCKOUTS. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE RELEASED IN A SYMMETRICAL MANNER ABOUT THE GIRDER CENTERLINE STARTING WITH THOSE FURTHEST FROM THE CENTERLINE AND WORKING INWARDS. FOR POST-TENSIONED TEMPORARY TOP STRANDS, ACTIVELY RESTRAIN THE STRAND CHUCKS AT THE GIRDER ENDS DURING CUTTING.
- 4. WITHIN 24 HOURS OF CUTTING THE TEMPORARY STRANDS, FILL THE BLOCKOUTS WITH A GROUT CONFORMING TO STD. SPEC. 9-20.3(2). REMOVE ALL MOISTURE IN BLOCKOUTS PRIOR TO FILLING THEM WITH GROUT.

NOTE:

NO LIVE LOAD SHALL BE ALLOWED ON THE SPANS UNTIL THE COMPRESSIVE STRENGTH OF THE TOP PORTION OF THE PIER DIAPHRAGM HAS REACHED 3000 PSI (MIN.).

Bridae Desian Enar. REGION STATE Supervisor Aldrich, BS FED. AID PROJ. NO. 06/20 Mizumori, A Designed By WASH. Howlett, K 12/21 Checked By Detailed By McCarthy, D 10/19 JOB NUMBER Bridge Projects Engr Prelim, Plan By CONTRACT NO. Architect/Specialist DATE







I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

SUPERSTRUCTURE CONSTRUCTION SEQUENCE

1534 of 1783

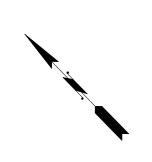
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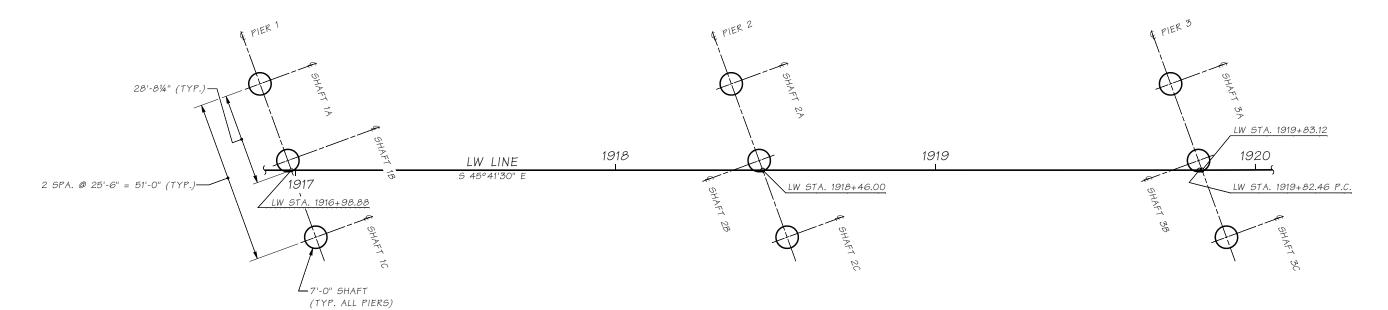
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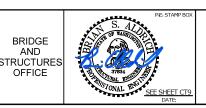


FOUNDATION LAYOUT

BEARING OF PIERS IS N 24°18'30" E

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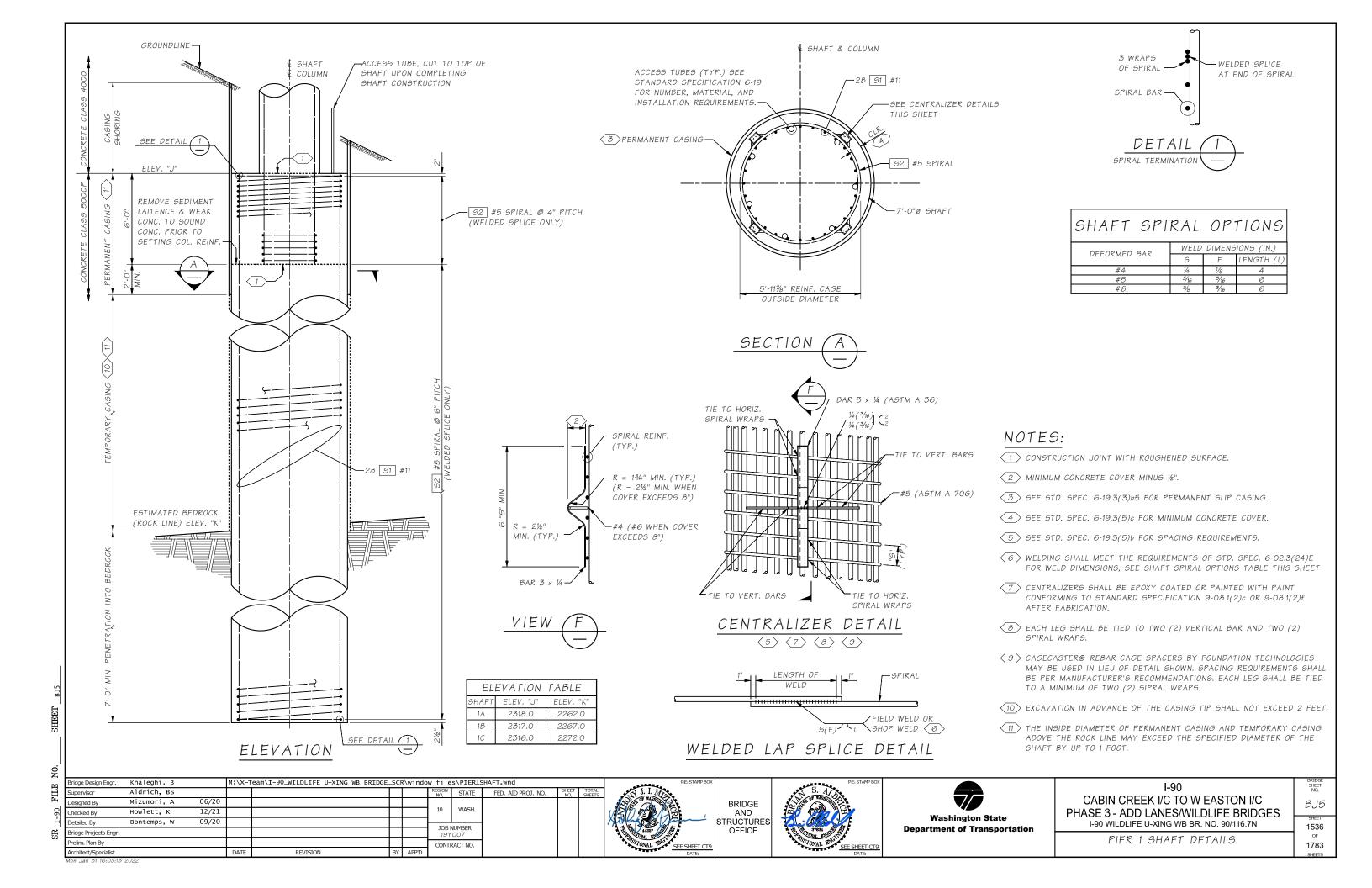


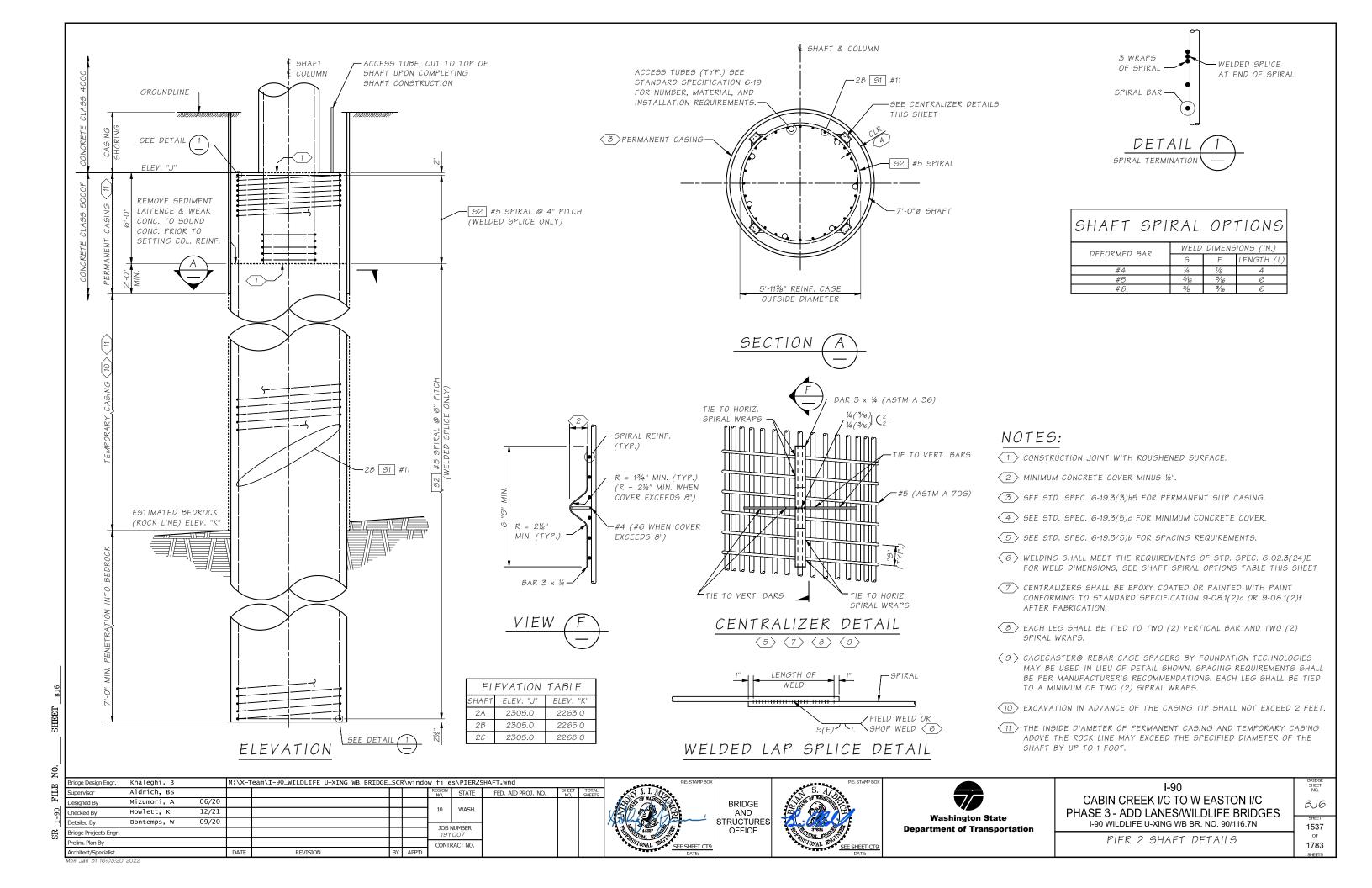


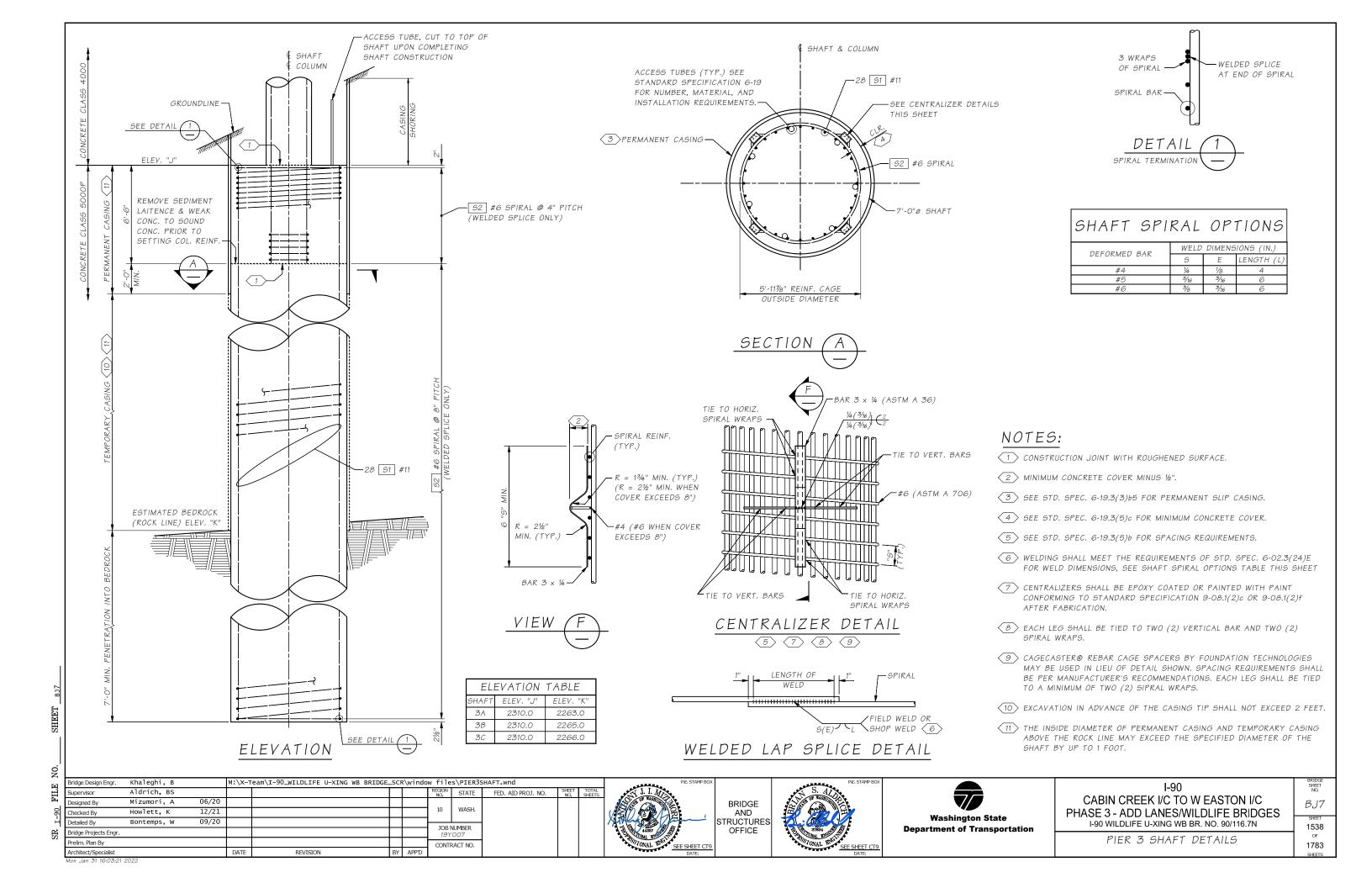
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CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
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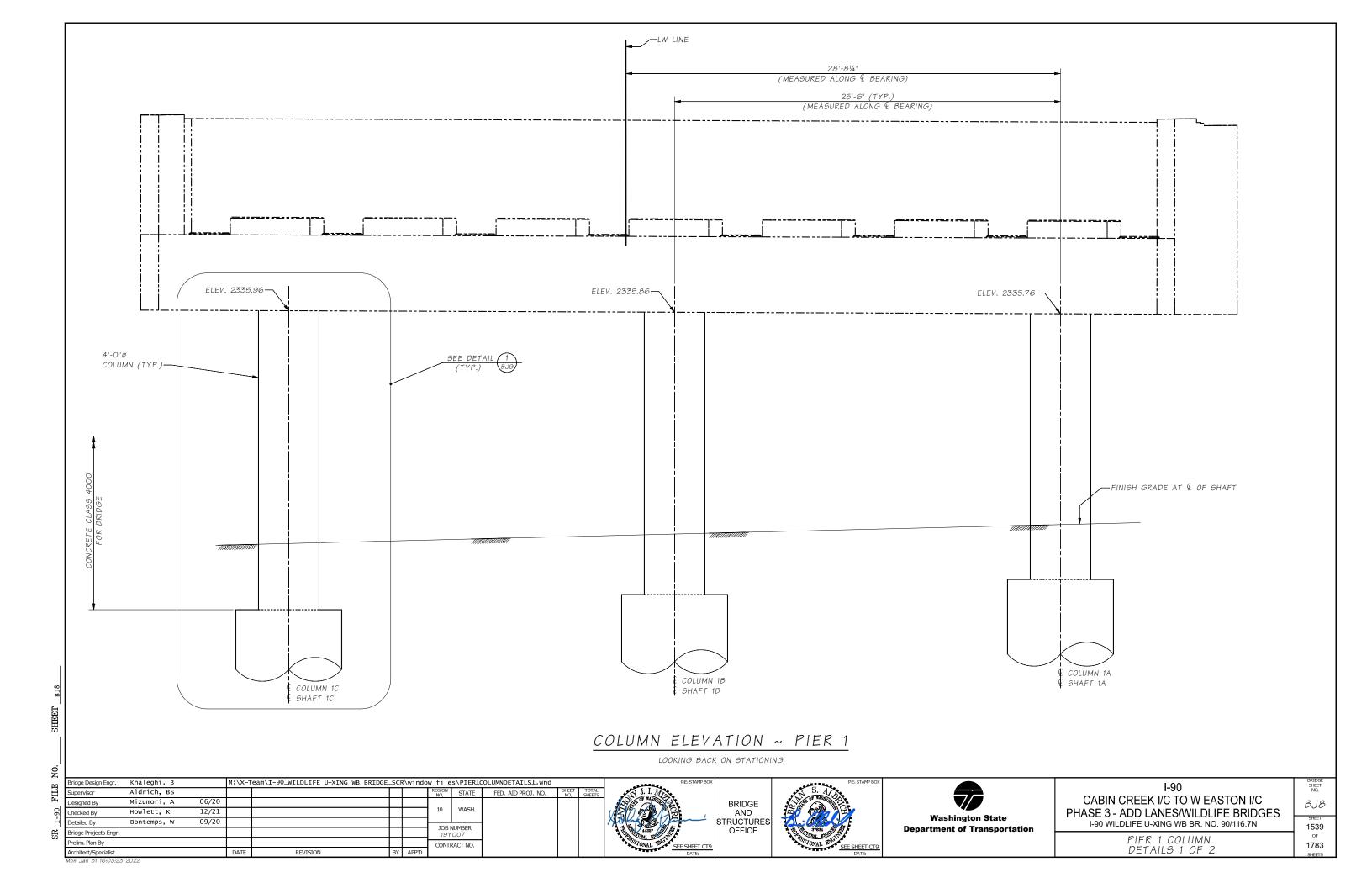
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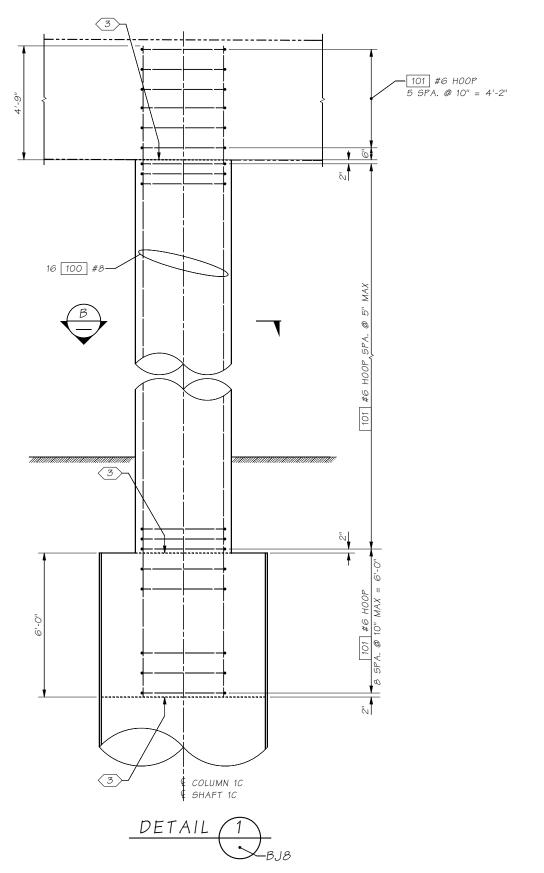
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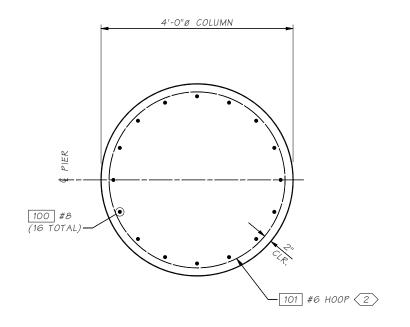




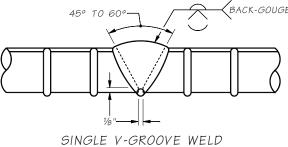


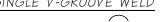


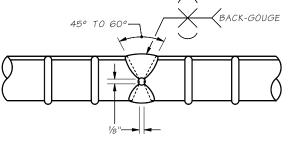












DOUBLE V-GROOVE WELD

HOOP WELD DETAIL

ALL BACKING SHALL BE REMOVED

NOTES:

- 1. COLUMN DETAILS & REINFORCING TYPICAL FOR ALL COLUMNS.
- 2 HOOP WELD SHALL BE DIRECT BUTT-WELDED AND CONFORM TO THE CURRENT EDITION OF STRUCTURAL WELDING CODE - REINFORCING STEEL OF AWS(D1.4) AND MEET THE REQUIREMENTS OF STD. SPEC. 6-02.3(24)E. RESISTANCE BUTT WELDED SPLICE MAY BE SUBSTITUTED AT THE CONTRACTOR'S OPTION.
- 3 CONSTRUCTION JOINT WITH ROUGHENED SURFACE.

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BRIDGE AND STRUCTURES OFFICE

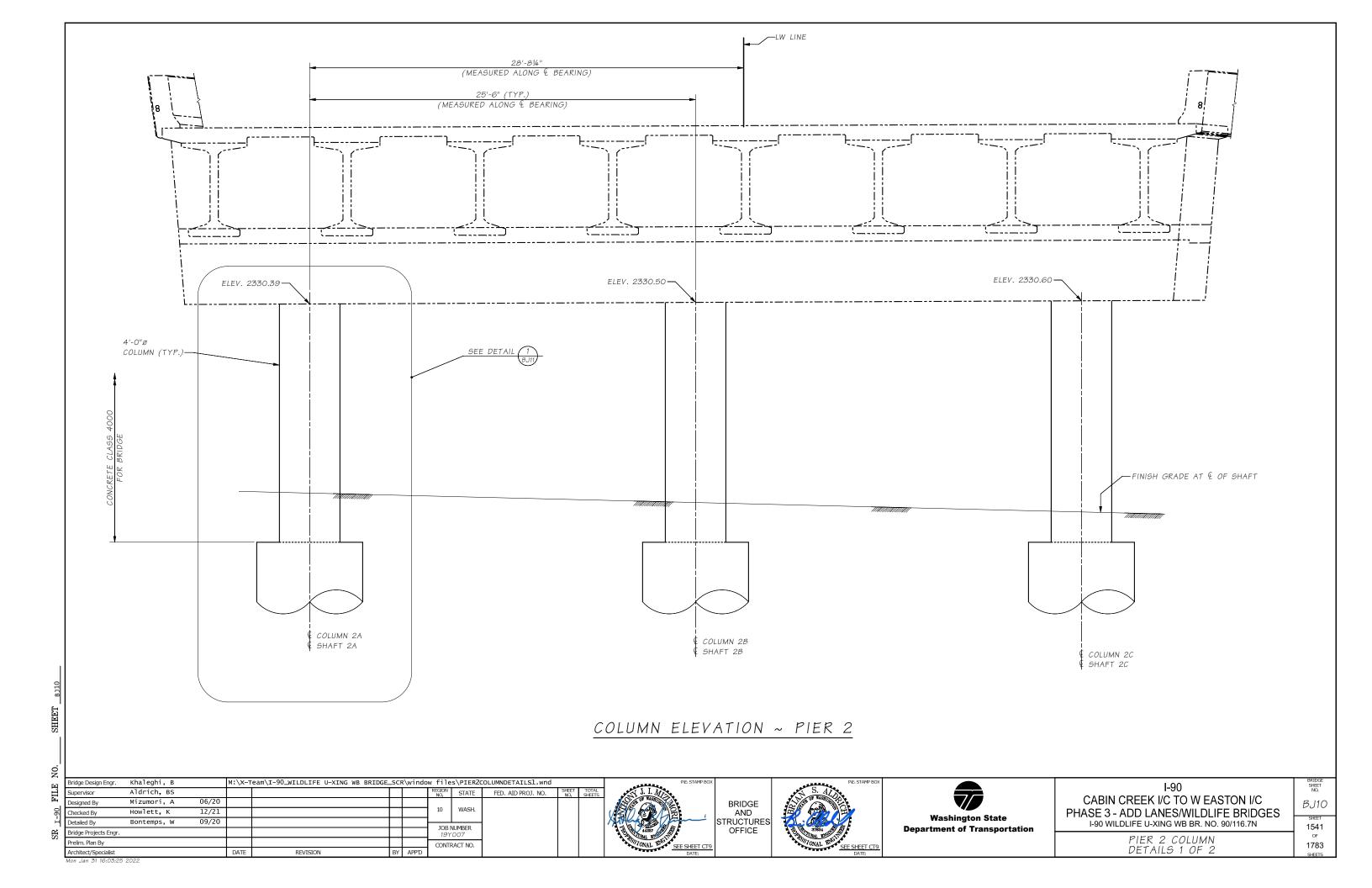


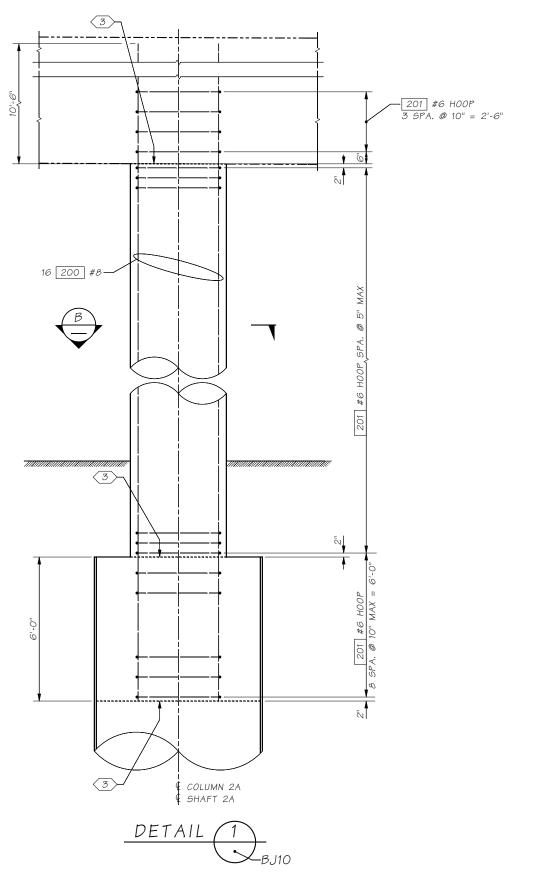


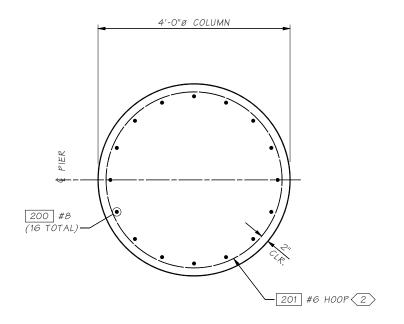
I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

PIER 1 COLUMN DETAILS 2 OF 2

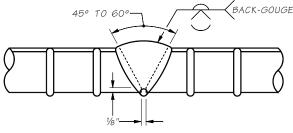
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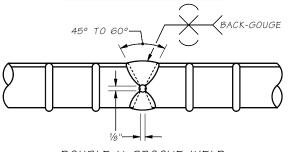








SINGLE V-GROOVE WELD



DOUBLE V-GROOVE WELD

HOOP WELD DETAIL

ALL BACKING SHALL BE REMOVED

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BRIDGE AND STRUCTURES OFFICE





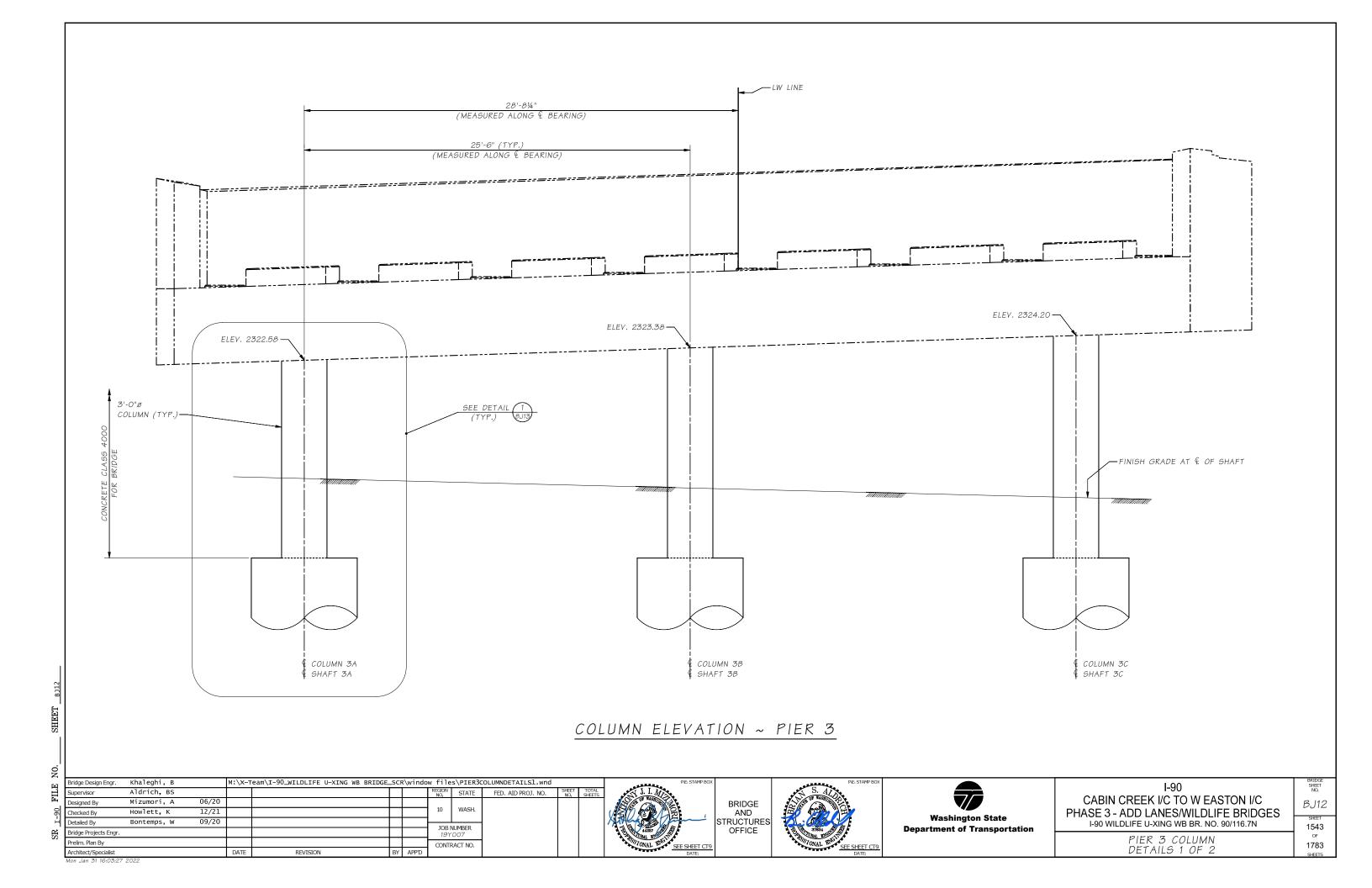
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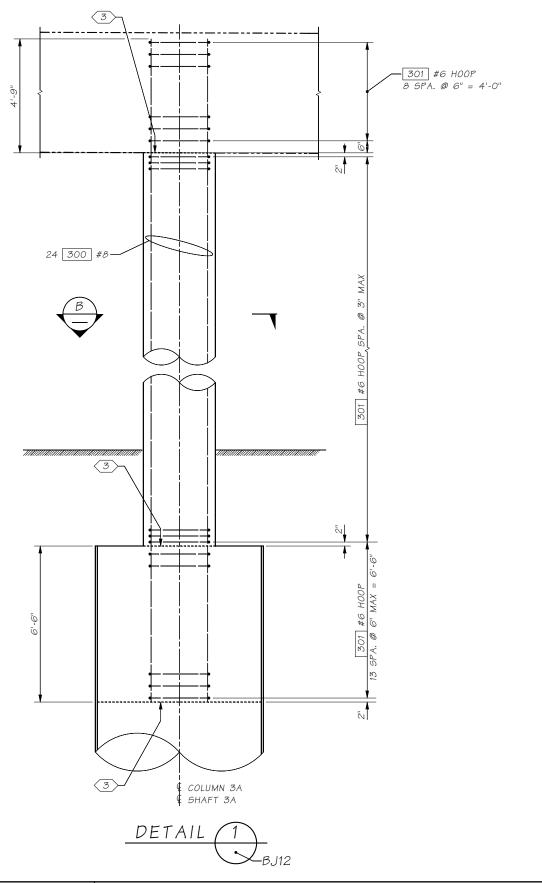
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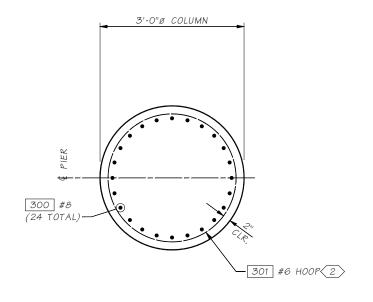
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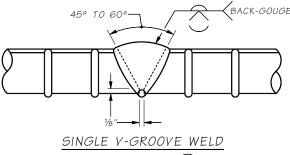
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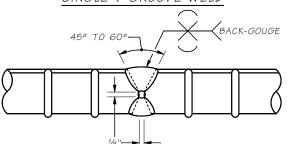












DOUBLE V-GROOVE WELD

HOOP WELD DETAIL

ALL BACKING SHALL BE REMOVED

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- 3 CONSTRUCTION JOINT WITH ROUGHENED SURFACE.

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BRIDGE AND STRUCTURES OFFICE





I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

PIER 3 COLUMN DETAILS 2 OF 2 BRIDGE
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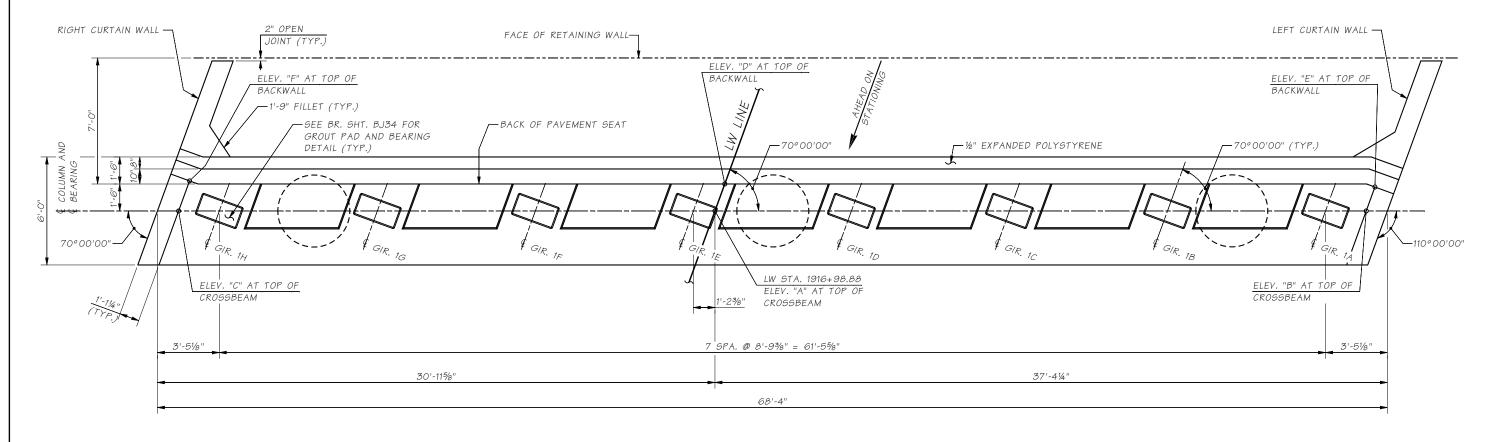
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PLAN

NOTES:

- SEE "TABLE OF ELEVATIONS" BR. SHT. BJ15 FOR TOP OF CROSSBEAM AND TOP OF BACKWALL ELEVATIONS.
- 2. SEE ARCHITECTURAL TREATMENT DETAIL ON BR. SHT. BJ56

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Department of Transportation

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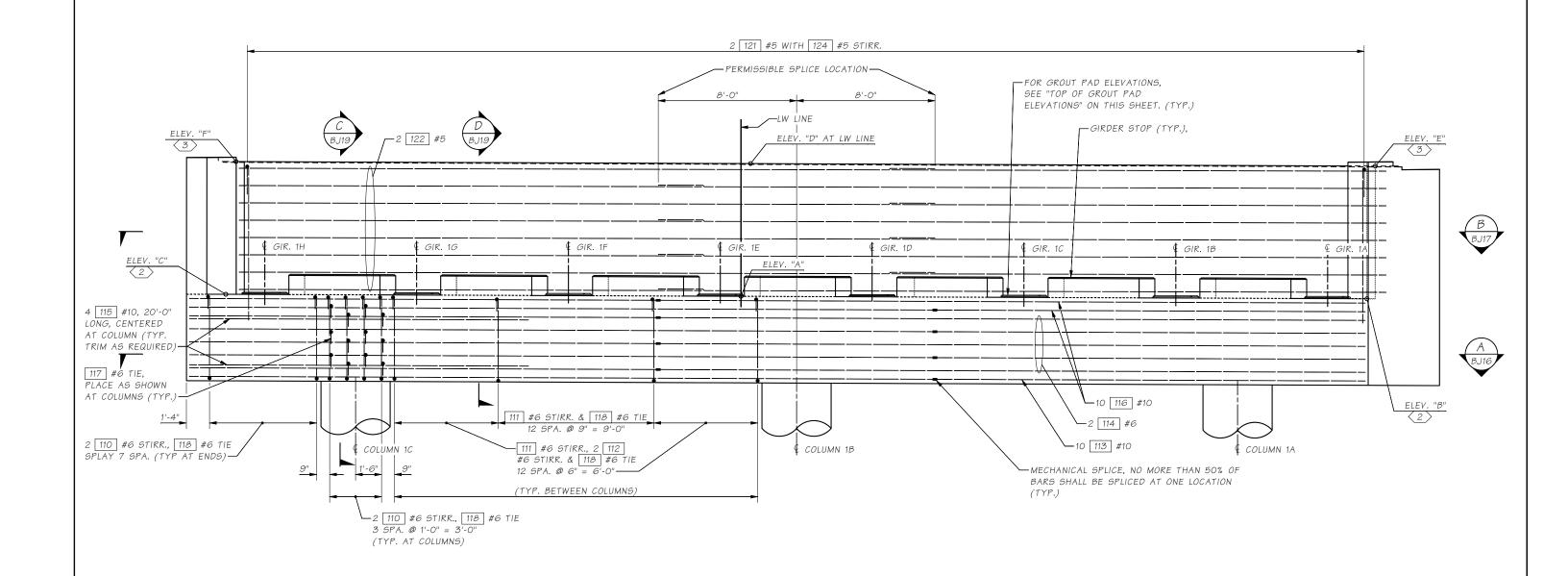
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BJ14

Mon Jan 31 16:03:29 2022

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NOTES:

- 1) PRIOR TO GROUT PAD PLACEMENT VERIFY THAT GIRDER CAMBERS ARE WITHIN THE UPPER AND LOWER BOUND "D" DIMENSIONS AS SHOWN IN THE GIRDER SCHEDULE. OTHERWISE NOTIFY THE ENGINEER TO VERIFY REQUIRED GROUT PAD ELEVATIONS.
- 2 TOP OF CROSSBEAM ELEVATION TAKEN AT INSIDE FACE OF CURTAIN WALL ALONG & BEARING.
- 3 TOP OF BACKWALL ELEVATION TAKEN AT INSIDE FACE OF CURTAIN WALL AND FRONT FACE OF BACKWALL.
- STAGGER SPLICES ON ADJACENT REINFORCEMENT BARS.

4.	REINFORCEMENT	TO	HAVE	2'-6"	MIN.	LAP	SPLICE	WHEN	REQUIRED.	

PE STAMP BOX	BRIDGE AND STRUCTURES OFFICE	75 77834 MAN 37834	P.E. STAMP

ELEVATION

LOOKING BACK ON STATIONING

	GIRDER	Γ
	ELEV.	2
Washington Stat		

TOP OF GROUT PAD ELEVATIONS (1)													
	1	Α	1B	1B 1C		1E	1F	1 <i>G</i>	1H				
	234	0.93	2340.96	340.96 2340.99 2341.03 2341.06 2341.10		2341.13	2341.17						
I-90													
		340.93 2340.96 2340.99 2341.03 2341.06 2341.10 2341.13 23											

TABLE OF ELEVATIONS

2340.93

2340.79

2341.05

2347.47

2347.32

2347.60

ELEV. "A"

ELEV. "B"

ELEV. "C"

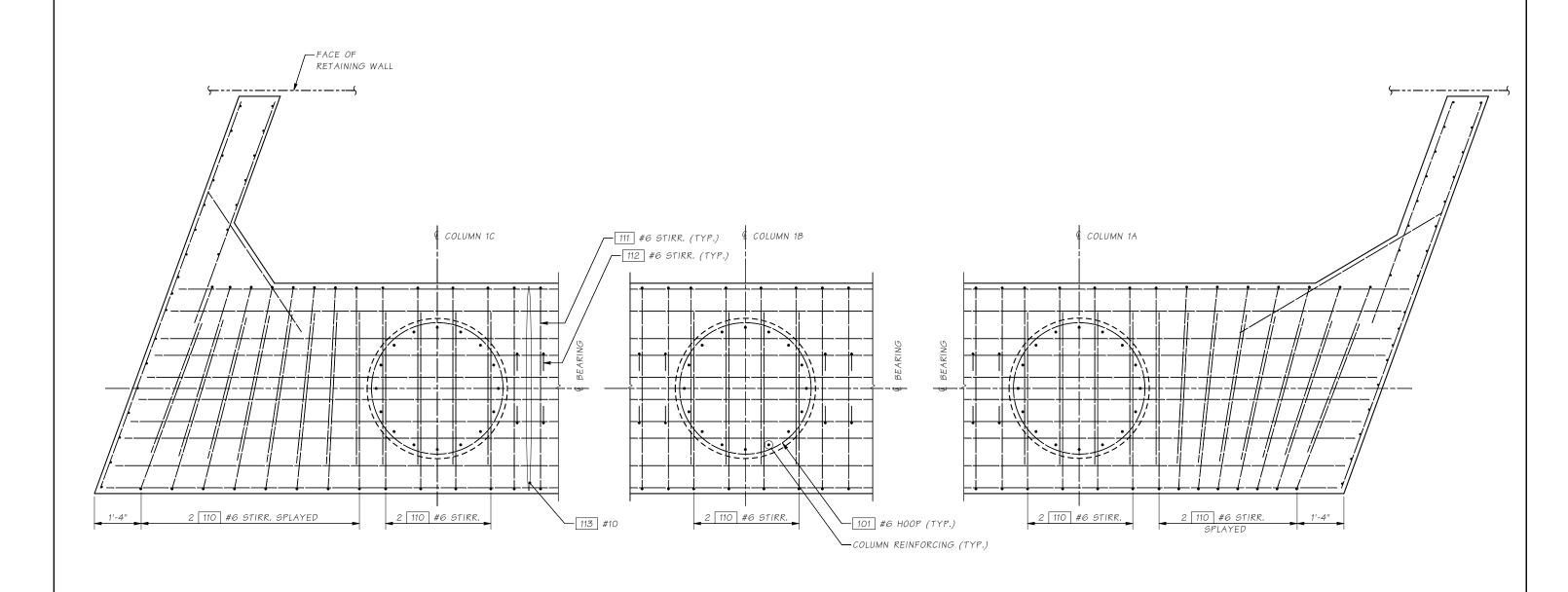
ELEV. "D"

ELEV. "E"

ELEV. "F"

PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N 1546 PIER 1 ELEVATION 1783

Prelim. Plan By							CONTI	RACT NO.			
Bridge Projects Engr.								007			
Detailed By	Wrenn, M	06/20					TOP	NUMBER			
Checked By	Howlett, K	12/21					10	WASH.			
Designed By	Mizumori, A	06/20									
Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Bridge Design Engr.	Khaleghi, B		M:\X-T	-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIERLELEV.wnd							





M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER1X-BEAMDTLS1.wnd Bridge Design Engr. Khaleghi, B REGION STATE Aldrich, BS Supervisor FED. AID PROJ. NO. 06/20 Designed By Mizumori, A WASH. 12/21 Howlett, K Checked By 09/20 Detailed By Wrenn, M JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. REVISION DATE



BRIDGE AND STRUCTURES OFFICE



I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

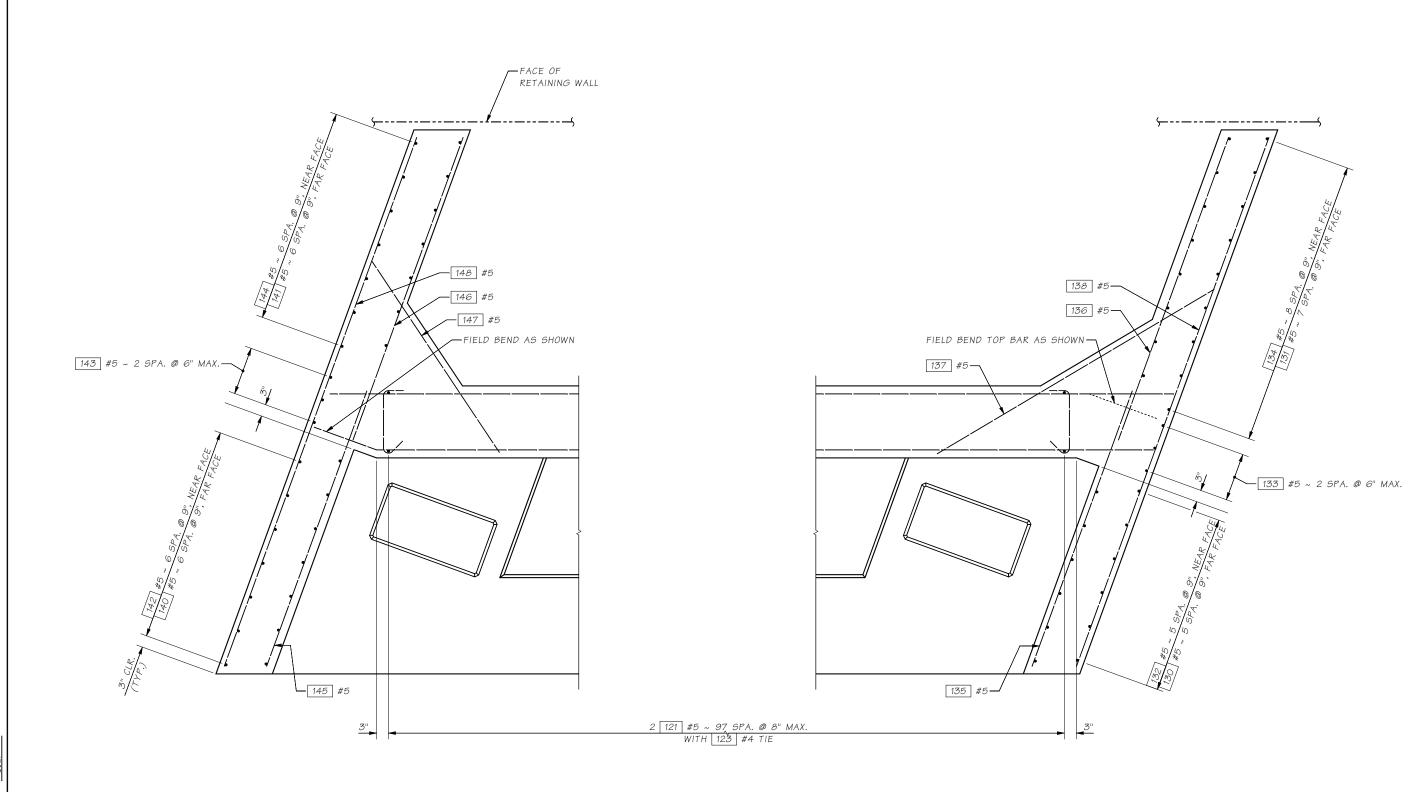
PIER 1 CROSSBEAM DETAILS 1 OF 4

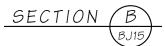
BJ16 1547 OF 1783

SHEET NO.

Architect/Specialist

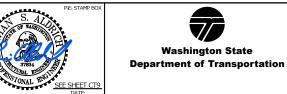
Mon Jan 31 16:03:32





Bridge Design Engr. Khaleghi, B M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER1X-BEAMDTLS2.wnd REGION STATE Aldrich, BS FED. AID PROJ. NO. 06/20 Designed By Mizumori, A WASH. 12/21 Howlett, K Checked By 09/20 Detailed By Wrenn, M JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. REVISION DATE

BRIDGE AND STRUCTURES OFFICE



I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

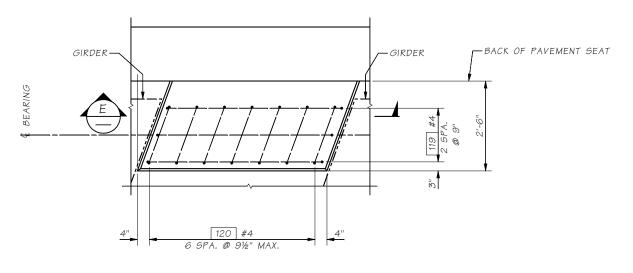
PIER 1 CROSSBEAM DETAILS 2 OF 4

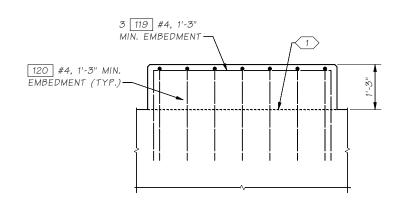
BJ17 1548 OF 1783

BRIDGE SHEET NO.

Architect/Specialist

Mon Jan 31 16:03:33





GIRDER STOP DETAIL

SEE BR. SHT. BJ34 FOR ADDITIONAL INFORMATION.



NOTES:

1 CONSTRUCTION JOINT WITH ROUGHENED SURFACE.

2													
	Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRIDGE	_scr	R∖windo	w file	s\PIER1>	C-BEAMDTLS3.wnd			Г
1	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	ı
٠.	Designed By	Mizumori, A	06/20										ĺ
3	Checked By	Howlett, K	12/21					10	WASH.				(
┧	Detailed By	Bontemps, W	09/20					700.					1
3	Bridge Projects Engr.								NUMBER 1007				
,	Prelim. Plan By							CONTR	RACT NO.				ı
	Architect/Specialist			DATE	REVISION	BY	APP'D						ı



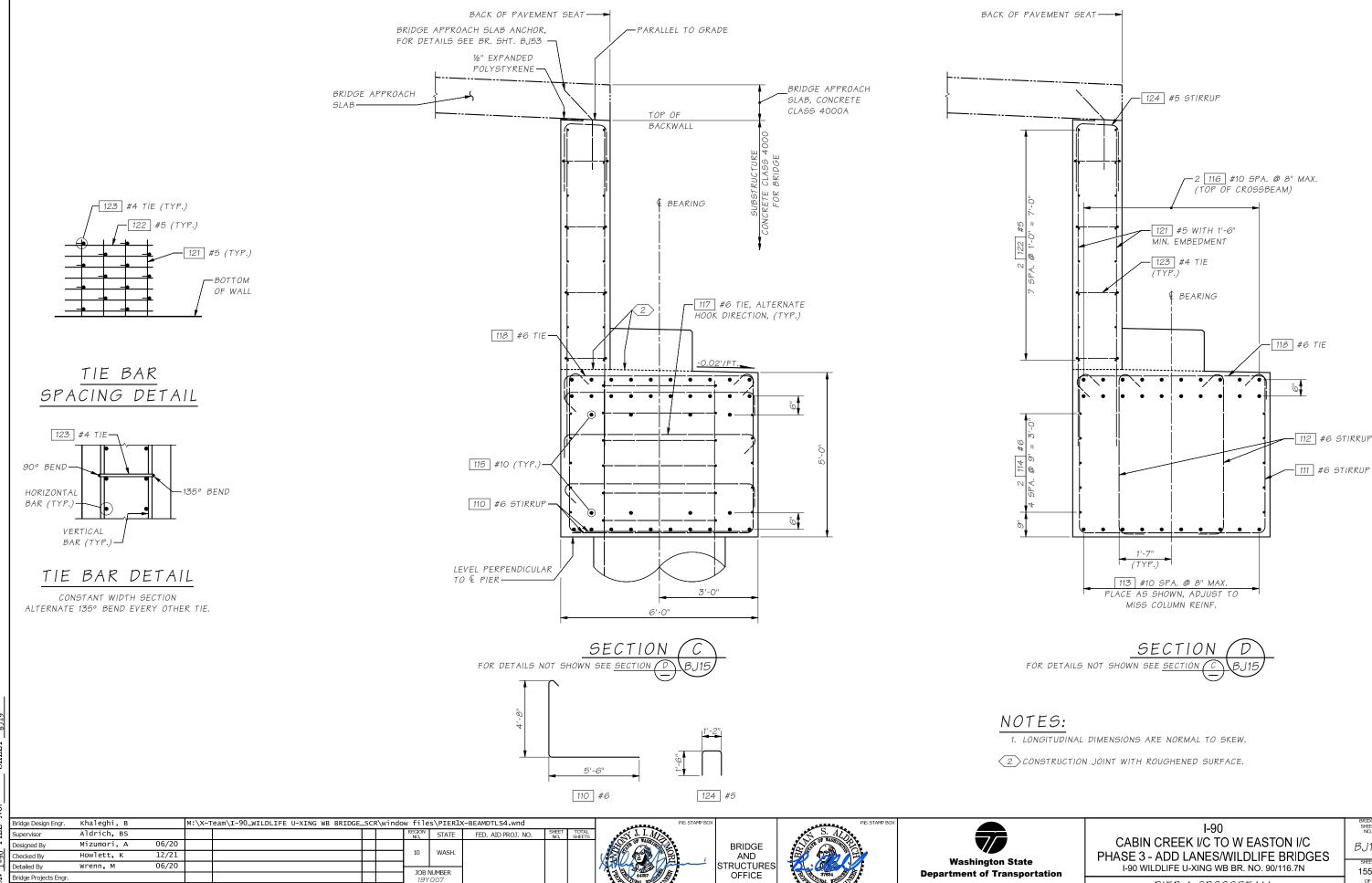




I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

PIER 1 CROSSBEAN DETAILS 3 OF 4

BRIDGE SHEET NO. BJ18 1549 OF 1783



OFFICE

CONTRACT NO.

BJ19

1550

1783

PIER 1 CROSSBEAM

DETAILS 4 OF 4

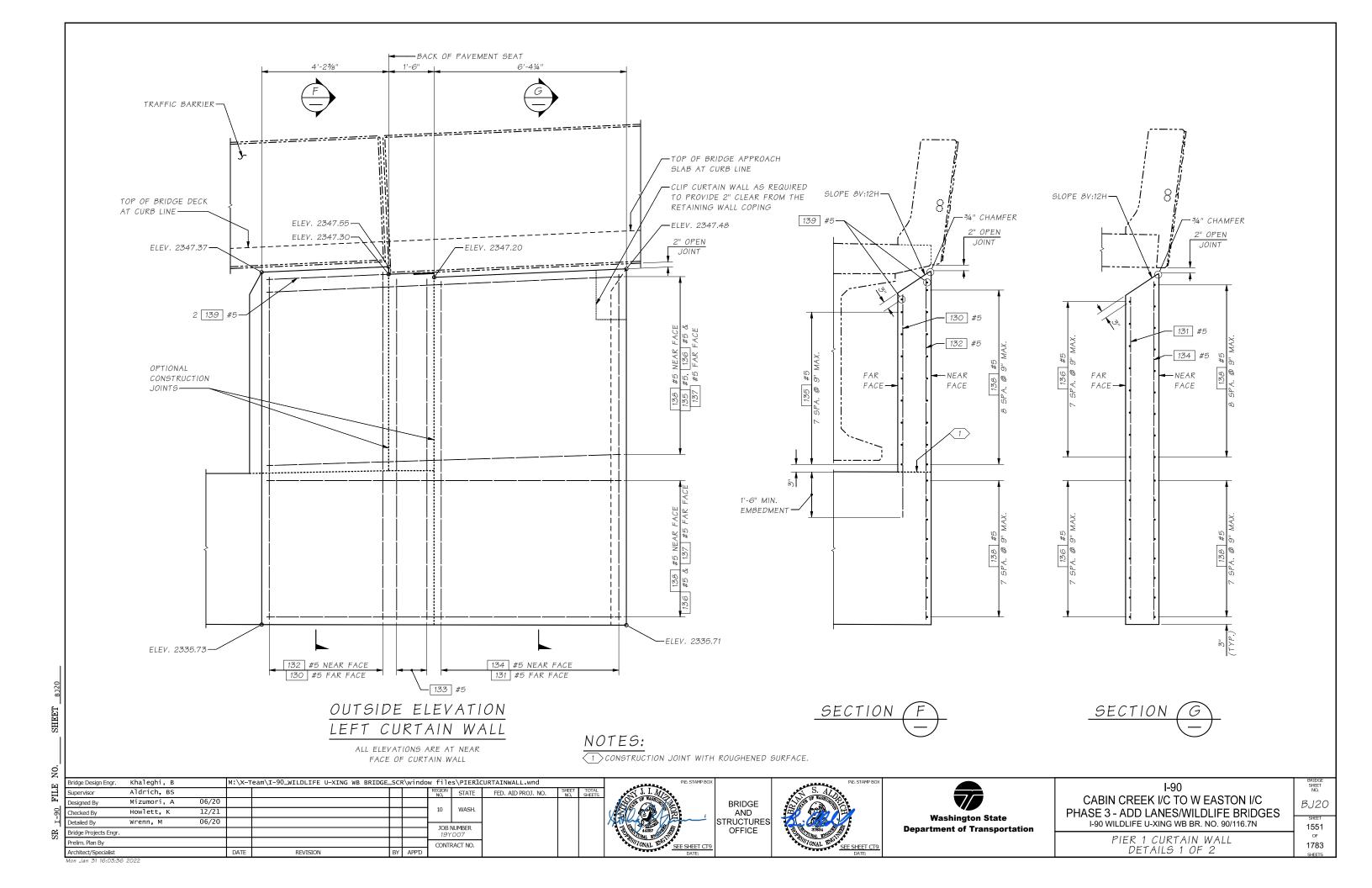
Bridge Projects Engr.

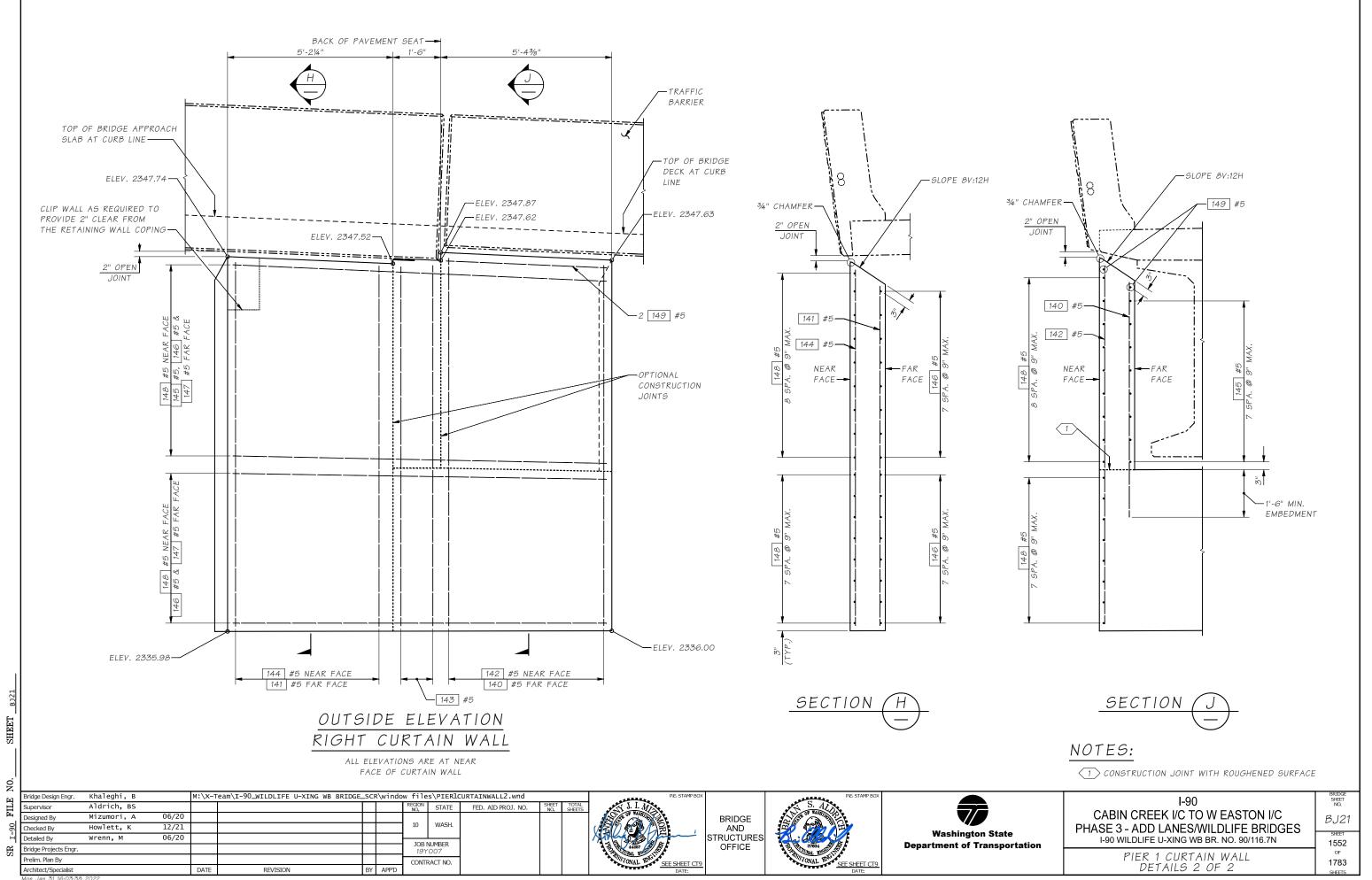
Prelim. Plan By

Architect/Specialist

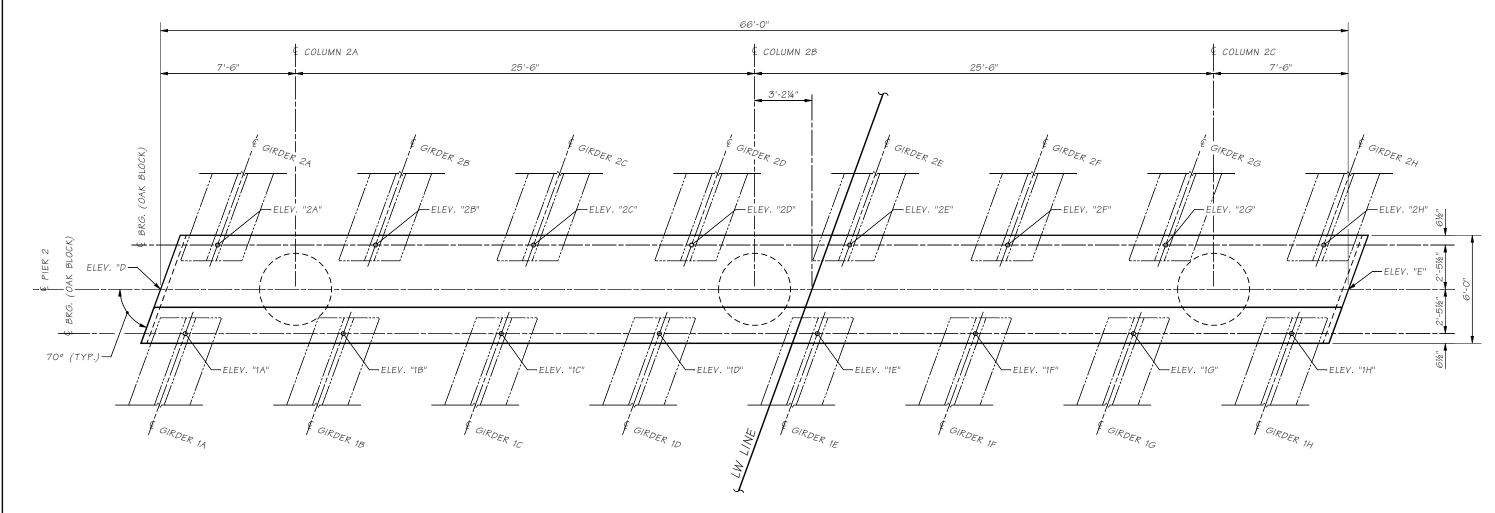
DATE

REVISION









PLAN

SHOWN AT TOP OF CROSSBEAM. SEE "FRAMING PLAN" FOR GIRDER SPACING.

TABLE	0 F	ELEVATIONS	
	TOP OF	OAK BLOCK	

SPAN 1	ELEVATION	SPAN 2	ELEVATION
"1A"	2334.88	"2A"	2334.66
"1B"	2334.91	"2B"	2334.69
"1C"	2334.95	"2C"	2334.72
"1D"	2334.98	"2D"	2334.75
"1E"	2335.02	"2E"	2334.79
"1F"	2335.05	"2F"	2334.82
"1 <i>G</i> "	2335.09	"2 <i>G</i> "	2334.87
"1H"	2335.12	"2H"	2334.93

Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRIDG	GE_SC	R\windc	w file	s\PIER2>	(BEAM1.wnd			
Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
Designed By	Mizumori, A	06/20										
Checked By	Howlett, K	12/21					10	WASH.				
Detailed By	Churchill, C	10/19					700					
Bridge Projects Engr.								NUMBER 1007				
Prelim. Plan By							CONT	RACT NO.				
Architect/Specialist			DATE	REVISION	BY	APP'D						



BRIDGE AND STRUCTURES OFFICE



I-90 CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

> PIER 2 CROSSBEAM DETAILS 1 OF 4

SHEET NO.

BJ22

SHEET 1553

1553 of 1783 SHEETS

Mon Jan 31 16:03:39 2022

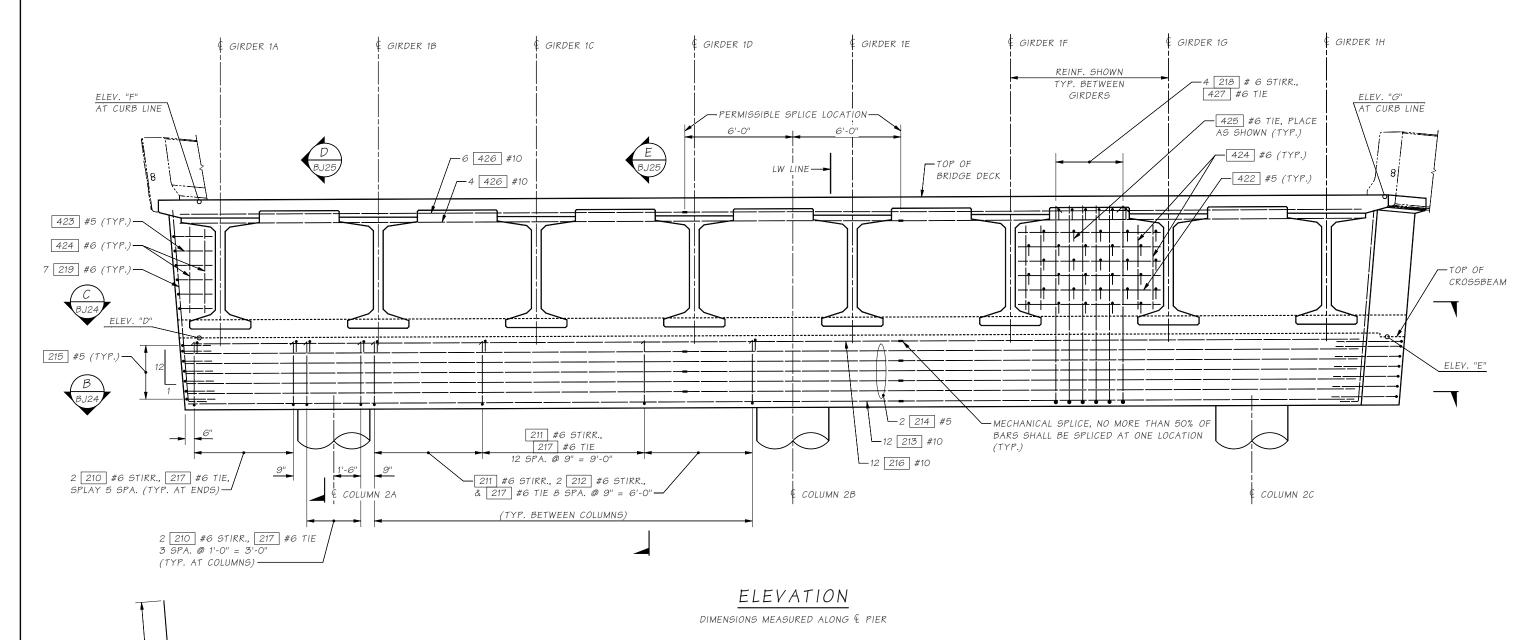


TABLE OF ELEVATIONS

ELEVATIONS AT & PIER

LOCATION	ELEVATION
"D"	2334.36
"E"	2334.63
"F"	2341.93
"G"	2342.21

219 #6

Ζ.													
-1	Bridge Design Engr.	Khaleghi, B		M:\X-T	ream\i-90_wildlife U-xing wb bridg	E_SCI	R∖windo	w file	s\PIER2X	BEAM2.wnd			
∄	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	l
₹.	Designed By	Mizumori, A	06/20										Ī
히	Checked By	Howlett, K	12/21					10	WASH.				10
Η	Detailed By	Wrenn, M	06/20					TODA	II IMPED				1
ž	Bridge Projects Engr.								NUMBER 1007				l
,,	Prelim. Plan By							CONTR	RACT NO.				l
	Architect/Specialist		•	DATE	REVISION	BY	APP'D						L



BRIDGE AND STRUCTURES OFFICE



7	
Washington State	
Department of Transportation	

I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

PIER 2 CROSSBEAM DETAILS 2 OF 4 BJ23

SHEET

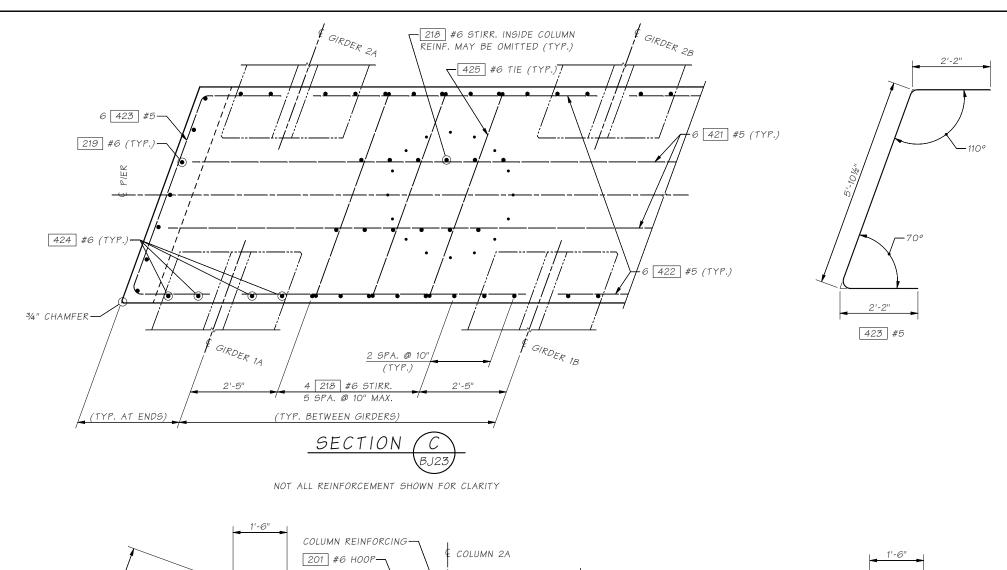
1554

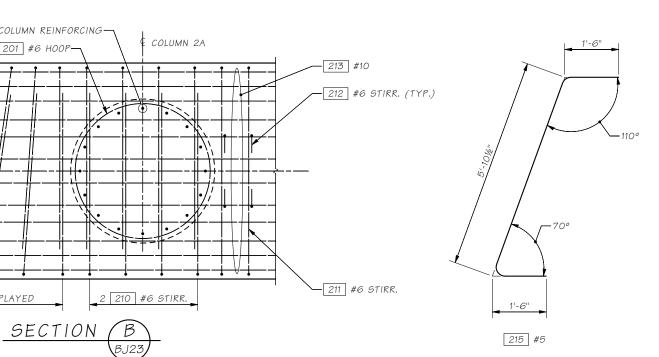
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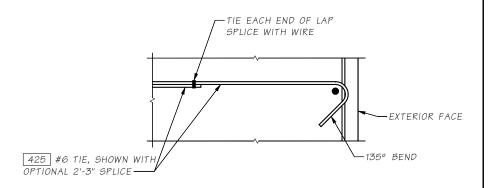
1783

SHEETS

Mon Jan 31 16:03:41 2022







TIE BAR DETAIL

NOT ALL REINFORCEMENT SHOWN FOR CLARITY

Bridge Design Engr. Khaleghi, B M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER2XBEAM3.wnd REGION STATE Aldrich, BS Supervisor 06/20 Designed By Mizumori, A WASH. Howlett, K 12/21 Checked By 08/20 Detailed By Wrenn, M JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. Architect/Specialist

Mon Jan 31 16:03:42 DATE REVISION

2 210 #6 STIRR., SPLAYED







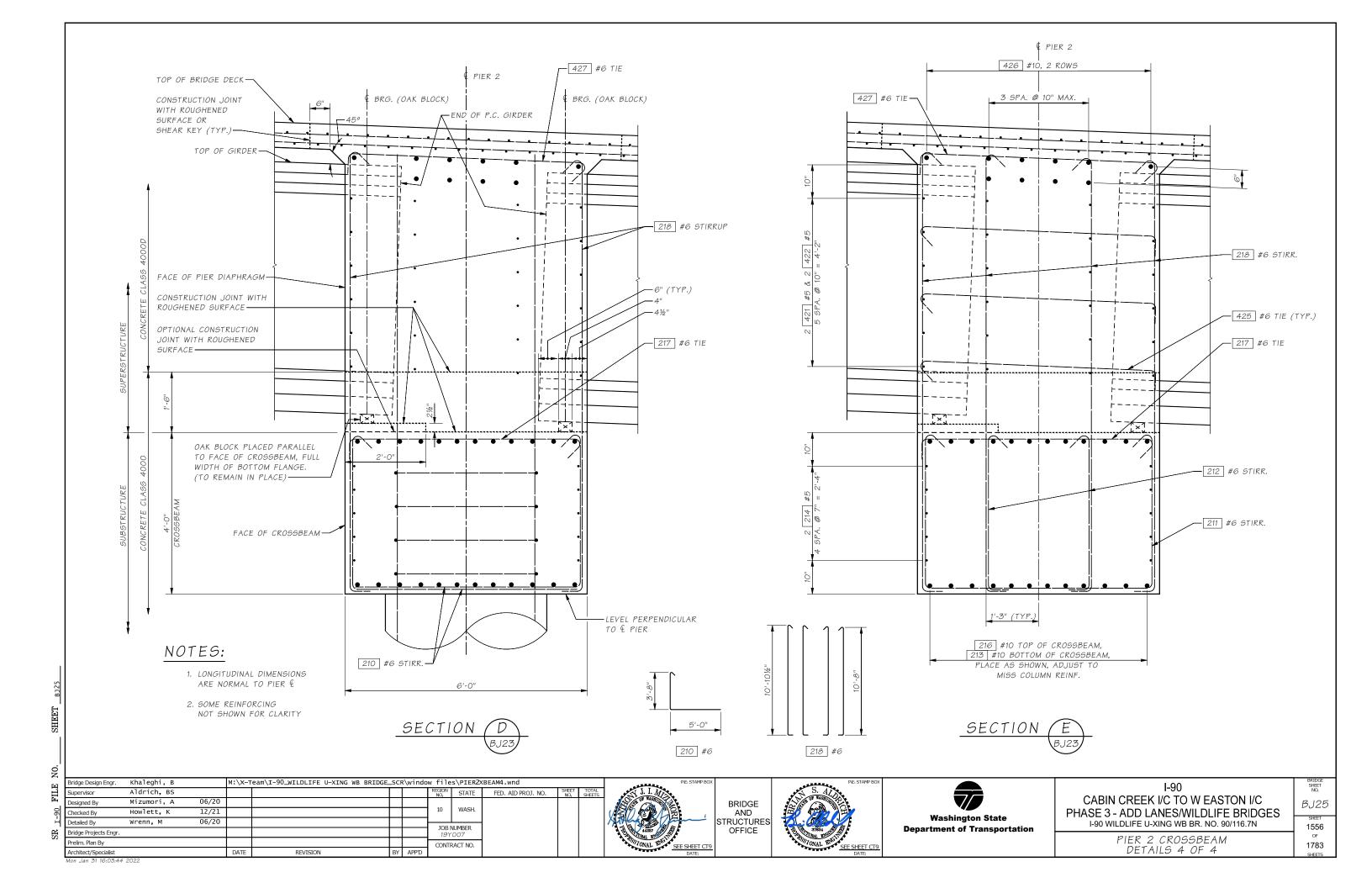
I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

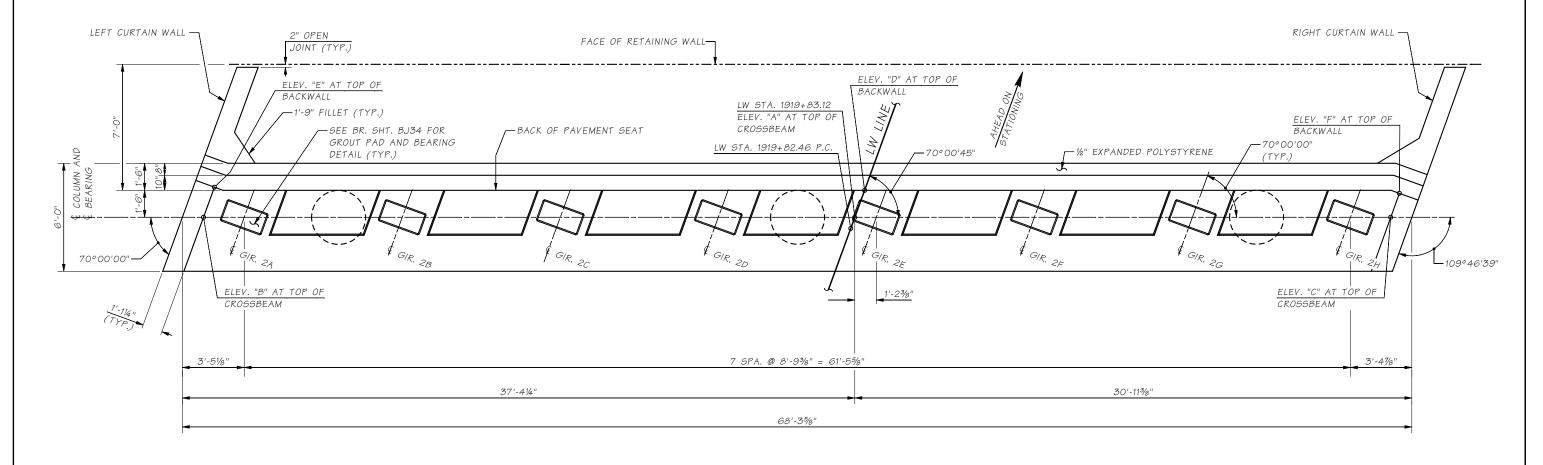
PIER 2 CROSSBEAM DETAILS 3 OF 4

*B*J24 1555 1783

34" CHAMFER-

7 215 #5





PLAN

NOTES:

- 1. SEE "TABLE OF ELEVATIONS" BR. SHT. BJ27 FOR TOP OF CROSSBEAM AND TOP OF BACKWALL ELEVATIONS.
- 2. SEE ARCHITECTURAL TREATMENT DETAIL ON BR. SHT. BJ56

_													
-3	Bridge Design Engr.	Khaleghi, B		M:\X-T	\X-Team\I-90_wILDLIFE U-XING WB BRIDGE_SCR\window files\PIER3PLAN.wnd								
∃	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1.
┺.	Designed By	Mizumori, A	06/20										
8	Checked By	Howlett, K	12/21					10	WASH.				X
뷔	Detailed By	Bontemps, W	06/20					TOD	III IMDED				///
ž	Bridge Projects Engr.								NUMBER 1007				}
,,	Prelim. Plan By							CONT	RACT NO.				
	Architect/Specialist			DATE	REVISION	BY	APP'D						l







I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

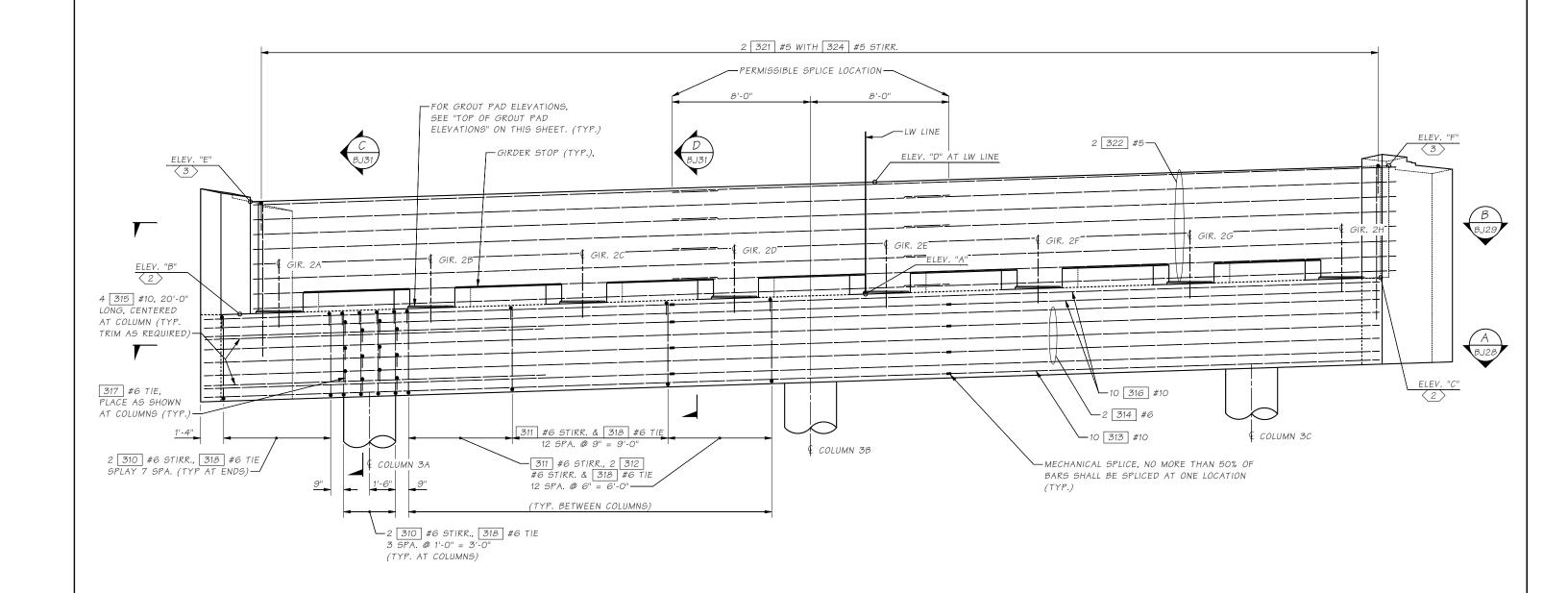
PIER 3 PLAN

SHEET 1557 OF 1783

Mon Jan 31 16:03:45 2022

NO. SHEET BJ26

-90 FILE NO._



ELEVATION

NOTES:

- 1 PRIOR TO GROUT PAD PLACEMENT VERIFY THAT GIRDER CAMBERS ARE WITHIN THE UPPER AND LOWER BOUND "D" DIMENSIONS AS SHOWN IN THE GIRDER SCHEDULE. OTHERWISE NOTIFY THE ENGINEER TO VERIFY REQUIRED GROUT PAD ELEVATIONS.
- 3 TOP OF BACKWALL ELEVATION TAKEN AT INSIDE FACE OF CURTAIN WALL AND FRONT FACE OF BACKWALL.

CONTRACT NO.

4. REINFORCEMENT TO HAVE 2'-9" MIN. SPLICE WHEN REQUIRED.

2 TOP OF CROSSBEAM ELEVATION TAKEN AT INSIDE FACE OF CURTAIN WALL ALONG & BEARING.

DATE

STAGGER SPLICES ON ADJACENT REINFORCEMENT BARS.

				E
P.E. STAMP BOX	BRIDGE AND STRUCTURES OFFICE	S. A	Washington State Department of Transpo	

		TOP	OF GRO	DUT PAD	ELEVATI	ONS(1)	>	
GIRDER	2A	2B	2C	2D	2E	2F	2 <i>G</i>	2H
ELEV.	2327.69	2327.92	2328.17	2328.43	2328.70	2328.98	2329.28	2329.58
								BRIDGE

TABLE OF ELEVATIONS

2328.54

2327.41

2329.50

2334.94

2333.88

2335.96

SHEET NO.

BJ27

1558

1783

Bridge Design Engr. Khaleghi, B M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER3ELEV.wnd REGION STATE Aldrich, BS Supervisor FED. AID PROJ. NO. 06/20 Designed By Mizumori, A 12/21 WASH. Howlett, K Checked By 06/20 Detailed By Wrenn, M JOB NUMBER Bridge Projects Engr Prelim. Plan By

REVISION

SEE SHEET CT9

I-90 CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N nt of Transportation

ELEV. "A"

ELEV. "B"

ELEV. "C"

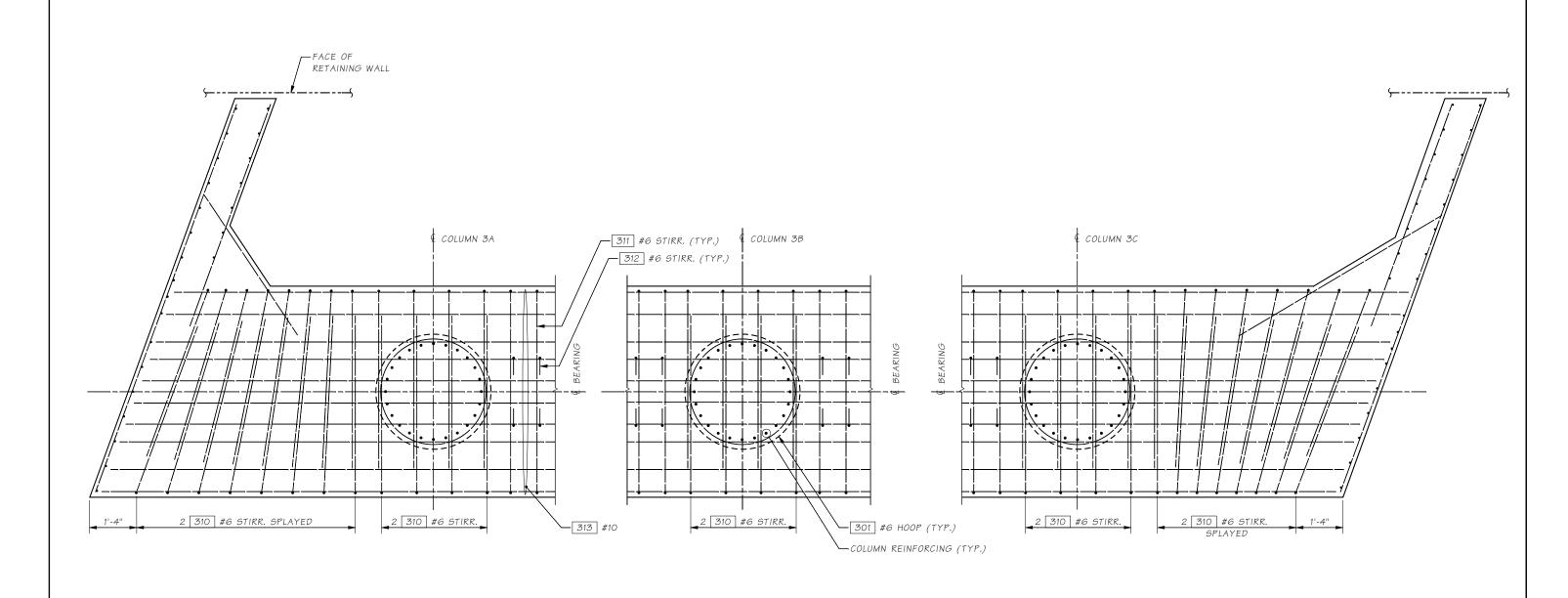
ELEV. "D"

ELEV. "E"

ELEV. "F"

PIER 3 ELEVATION

Architect/Specialist





M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER3X-BEAMDTLS1.wnd Bridge Design Engr. Khaleghi, B REGION STATE Aldrich, BS Supervisor FED. AID PROJ. NO. 06/20 Designed By WASH. 12/21 Howlett, K Checked By 06/20 Detailed By Wrenn, M JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. REVISION Architect/Specialist DATE

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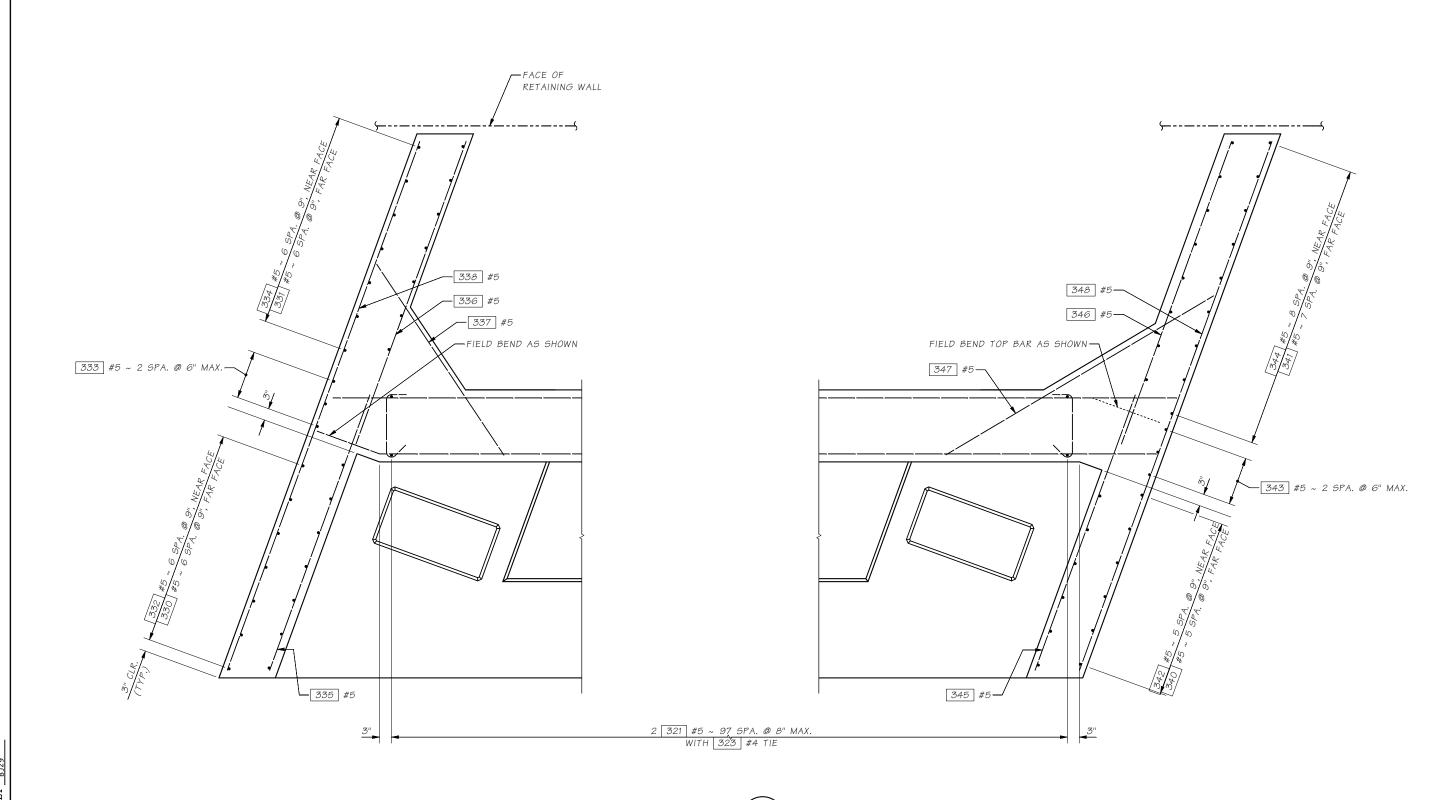


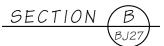
I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

PIER 3 CROSSBEAM DETAILS 1 OF 4

BJ28 1559 OF 1783

SHEET NO.





Bridge Design Engr. Khaleghi, B M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER3X-BEAMDTLS2.wnd REGION STATE Aldrich, BS FED. AID PROJ. NO. 06/20 Designed By Mizumori, A WASH. 12/21 Howlett, K Checked By 06/20 Detailed By Wrenn, M JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. REVISION DATE

BRIDGE AND STRUCTURES OFFICE





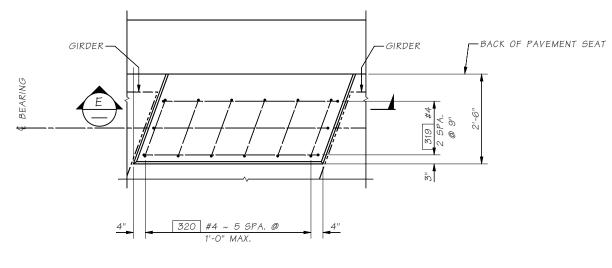
I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

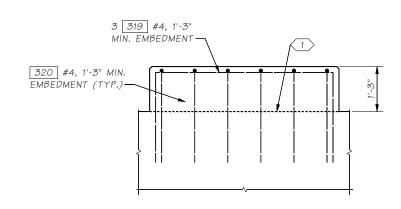
PIER 3 CROSSBEAM DETAILS 2 OF 4

BRIDGE SHEET NO. *BJ29* 1560 OF 1783

Architect/Specialist

Mon Jan 31 16:03:49





GIRDER STOP DETAIL

SEE BR. SHT. BJ34 FOR ADDITIONAL INFORMATION.



NOTES:

1 CONSTRUCTION JOINT WITH ROUGHENED SURFACE.

:													
,	Bridge Design Engr.	r. Khaleghi, B			M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\PIER3X-BEAMDTLS3.wnd								
1	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	ĺ
۱. ا	Designed By	Mizumori, A	06/20										ĺ
3	Checked By	Howlett, K	12/21					10	WASH.				1
`	Detailed By	Bontemps, W	09/20					TODA	II II ADED				1
:	Bridge Projects Engr.								NUMBER 1007				1
1	Prelim. Plan By							CONTE	RACT NO.				1
	Architect/Specialist			DATE	REVISION	BY	APP'D						L







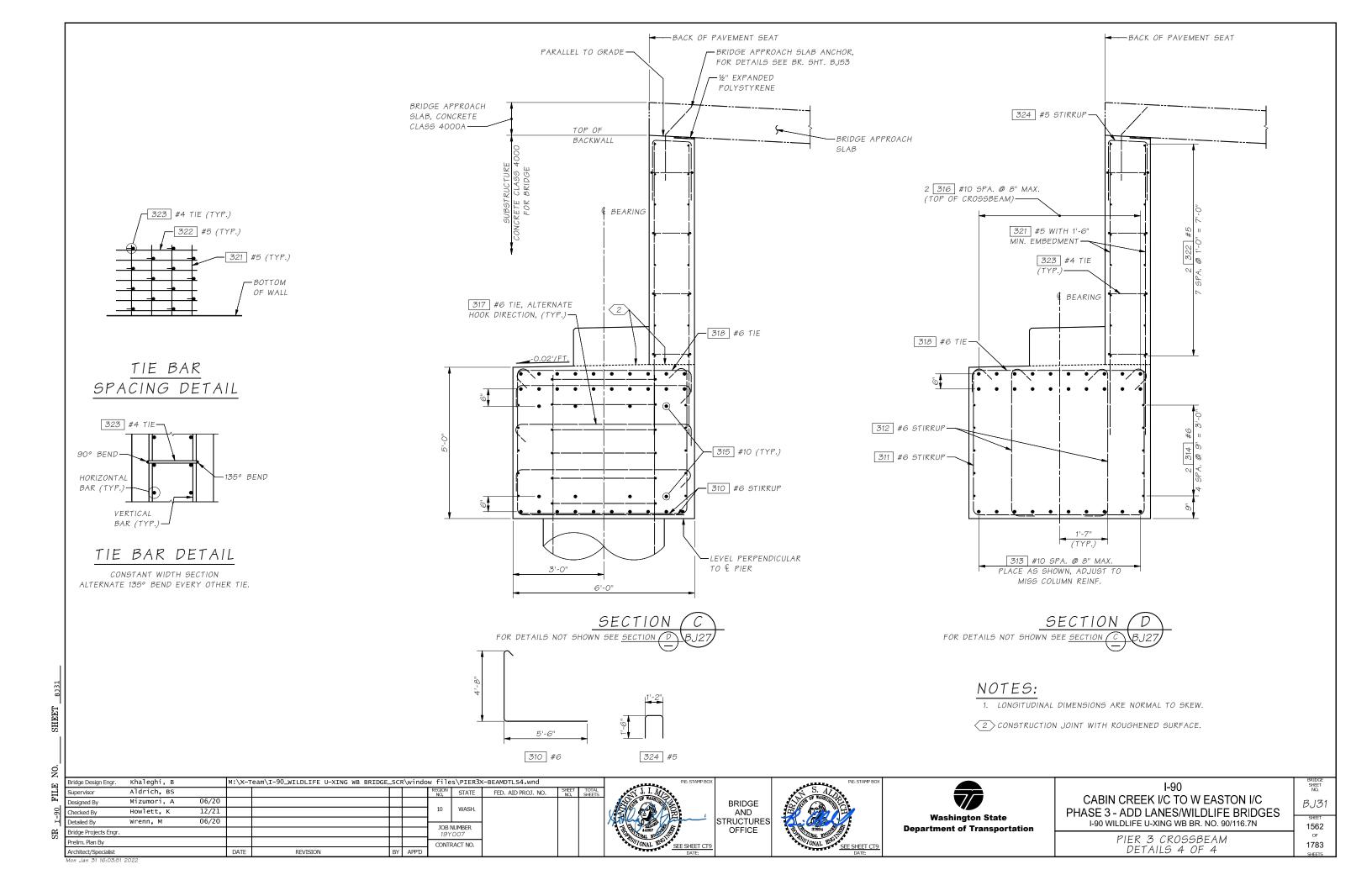
I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

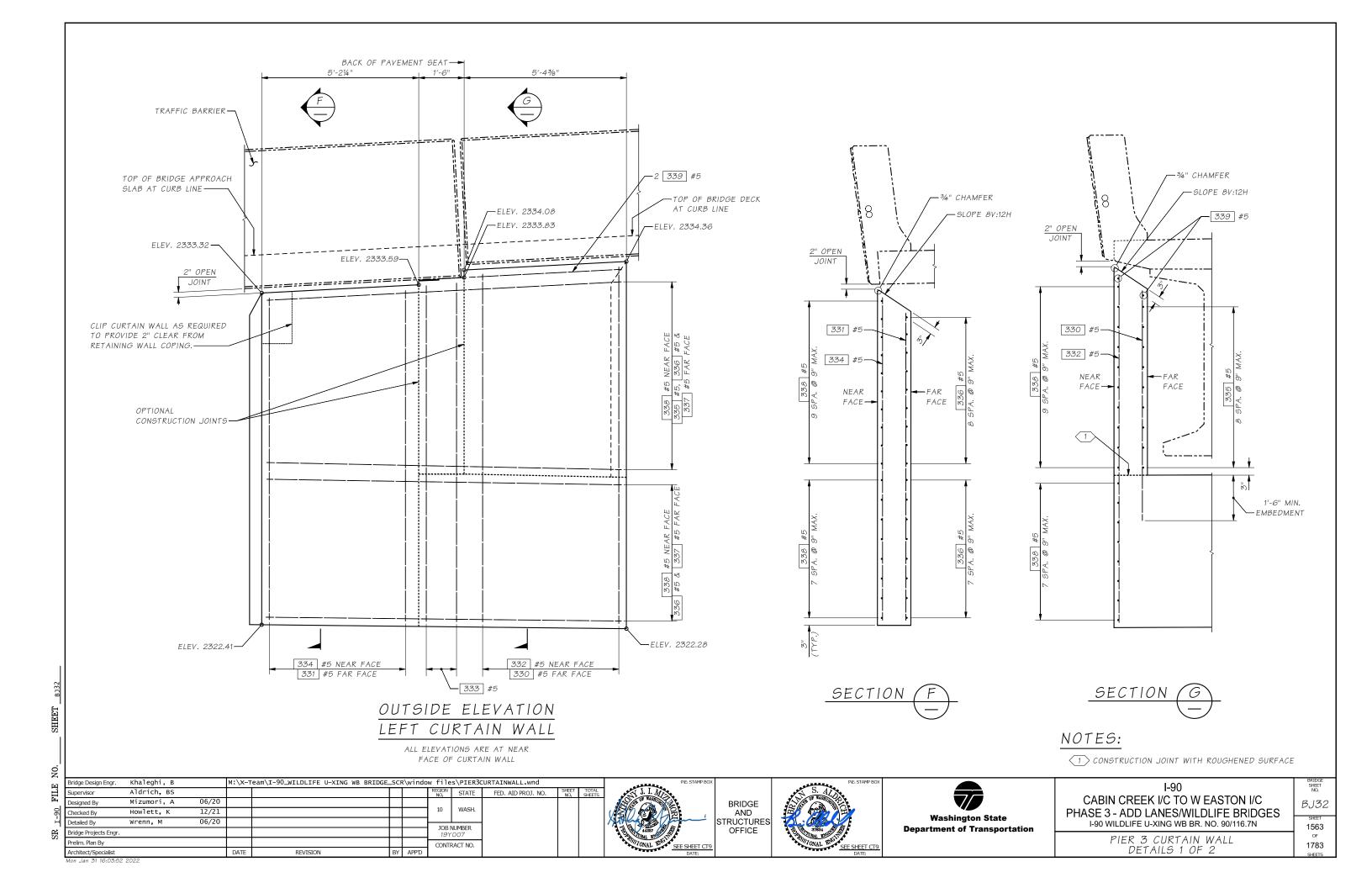
PIER 3 CROSSBEAM DETAILS 3 OF 4

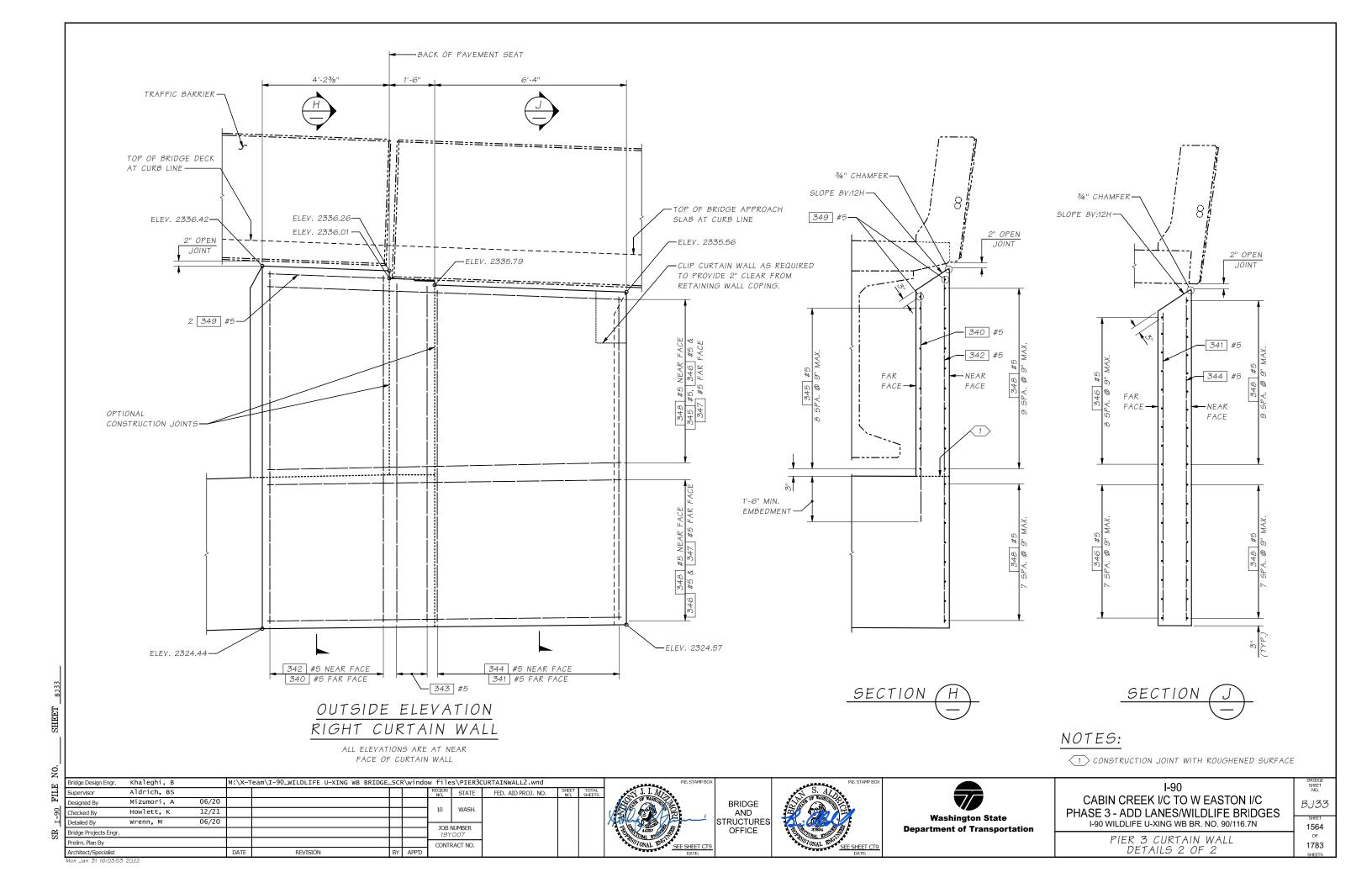
BJ30 1561 OF 1783

BRIDGE SHEET NO.

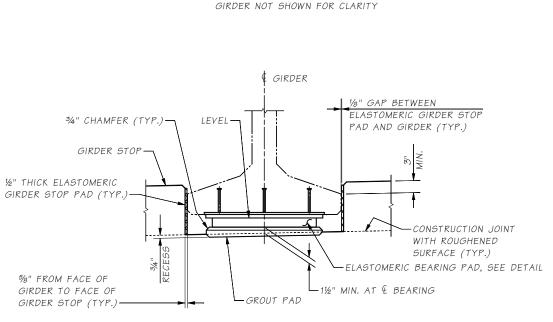
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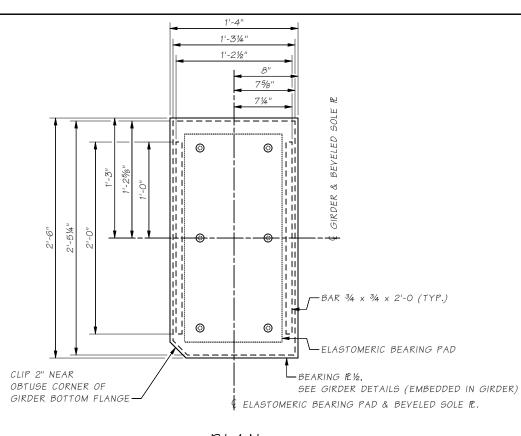
ELASTOMERIC BEARING PAD & GROUT PAD DETAIL



SECTION

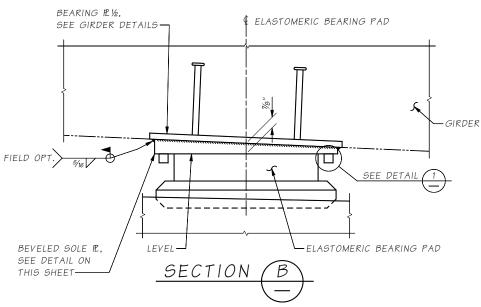
NOTES:

- 1. GIRDER STOPS SHALL BE CONSTRUCTED AFTER GIRDER PLACEMENT.
- 2. THE ELASTOMERIC GIRDER STOP PADS SHALL BE BONDED TO THE GIRDER STOPS WITH AN APPROVED ADHESIVE.

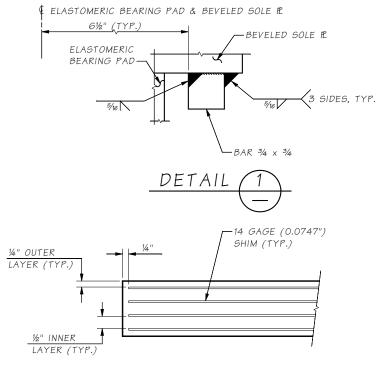


PLAN BEVELED SOLE PLATE DETAIL

HOT DIP GALVANIZED

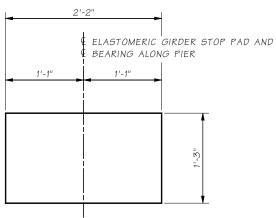


ALL WELDING IN ACCORDANCE WITH AWS D1.1. AFTER WELDING, PAINT EXPOSED METAL WITH TWO COATS OF GALVANIZING REPAIR PAINT



ELASTOMERIC BEARING PAD

LAMINATED ELASTOMERIC BEARING PAD (4 SHIMS).



ELASTOMERIC GIRDER STOP PAD

SHEAR MODULUS = 165 PSI

BEARING DESIGN TABLE AASHTO METHOD B DESIGN										
SERVICE - I LIMIT STATE										
DEAD LOAD (DL) REACTION	220 KIPS									
LIVE LOAD REACTION (W/O IMPACT)	120 KIPS									
UNLOADED HEIGHT	2.30 IN									
LOADED HEIGHT (DL)	2.27 IN									
SHEAR MODULUS	165 PSI									

Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_wILDLIFE U-XING WB BRID	GE_SC	R\windo	ow file	s\BEARIN	NG DETAILS.wnd		
Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Designed By	Mizumori, A	06/20									
Checked By	Howlett, K	12/21					10	WASH.			
Detailed By	McCarthy, D	10/19					700				
Bridge Projects Engr.								NUMBER 1007			
Prelim. Plan By							CONT	RACT NO.			
Architect/Specialist			DATE	REVISION	BY	APP'D	1				



BRIDGE AND TRUCTURES OFFICE

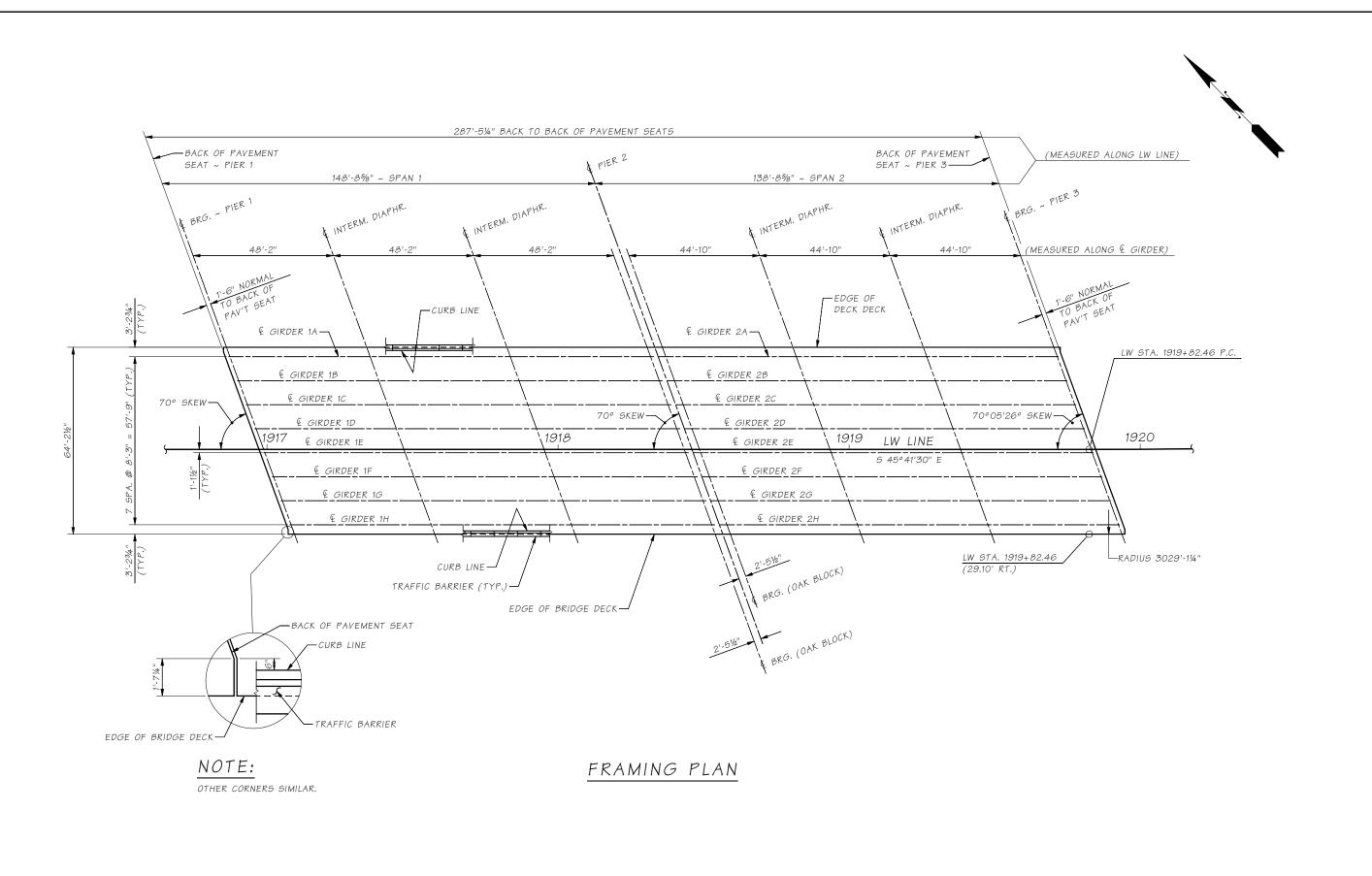




CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

BEARING DETAILS

1565 1783



Bridge Design Engr. Khaleghi, B M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\FRAMING PLAN.wnd REGION STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS Aldrich, BS Supervisor 06/20 Designed By Mizumori, A WASH. 12/21 Howlett, K Checked By 06/20 Detailed By Bontemps, W JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. DATE REVISION



BRIDGE AND STRUCTURES OFFICE



I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

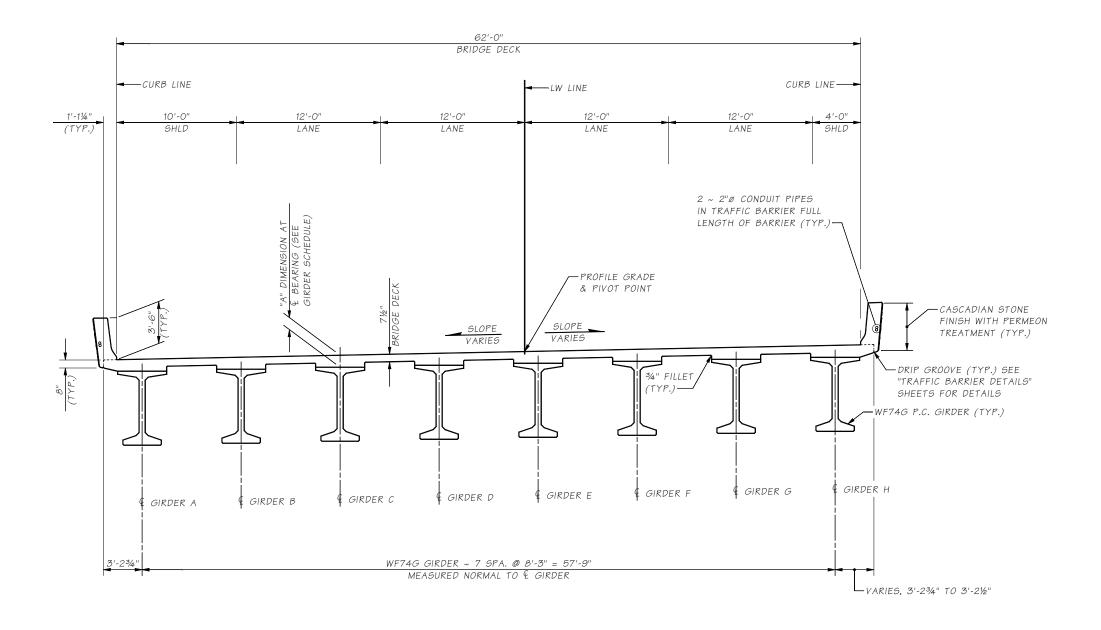
1566 FRAMING PLAN

Architect/Specialist

BJ35

1783

SHEET NO.



TYPICAL SECTION

SHOWN NEAR MID-SPAN

,	Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRIDG	E_SCI	R\windo	w file	s\TYPICA	L SECTION.wnd			
1	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1
٠.	Designed By	Mizumori, A	06/20										1.
3	Checked By	Howlett, K	12/21					10	WASH.				10/
┧	Detailed By	McCarthy, D	10/19					TOD	NI IMPED				X
•	Bridge Projects Engr.								NUMBER 1007				1
ı	Prelim. Plan By	•						CONT	RACT NO.				
	Architect/Specialist			DATE	REVISION	BY	APP'D						

BRIDGE AND STRUCTURES OFFICE



CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

1567 OF TYPICAL SECTION

BJ36

1783

	GIRDER SCHEDULE																																	
		10	PLAN LENGTH	INT. DIAPHRAGM		GIRI	DER EN	ID DE1	TAILS		CONC. STRENGTH	I			LOCATI C.G. ST			RAIGHT TO EX	STRANDS TEND	5	1		MIDSI VERTI	CAL		R	EINFORC DETAI		IT .		SHIPPING	AND HA	NDLING DETAILS	;
	Q ∠	ERIES	(ALONG GIRDER	TYPE (FULL OR	10 10	La	Θ1	θ2	P1 P2						E F	€ Fo	END	1	END	2	ION A	C C	DEFLEC D	TION	ZONE	E 1 2	ZONE 2	ZON	E 3 H1	MAXIMUM MIDSPAN	L L1	L2	K_{Θ}	W _{CC}
SPAN	GIRDE	GIRDER SI	GRADE) (SEE GIRDER NOTE 1)	PARTIAL)	END 1 TYPE					@ 28-DAYS F'C (KSI)	Ø RELEASE F'CI (KSI)	STRAIGHT	HARPED	TEMPORARY			STRANDS	EXTENSION LENGTH	STRANDS	EXTENSION	"A" DIMENSIO E BEARINC	DECK SCR. CAMBER	00	UPPER BOUND @ 120 DAYS	Ü	NGTH	SPACING	SPACING	LENGTH	VERTICAL DEFLECTION AT SHIPPING			MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	MINIMUM SHIPPING SUPPORT CNTRTO-CNTR. WHEEL SPACING
1	ALL	WF74 <i>G</i>	146'-5"	PARTIAL	B D	1'-034	" 70°	70°	1'-03/4" -	8.0	6.3	38	14	2	3½" 43	⁄s" 10"	-	-	® TO €	2'-9	" 1'-0"	25/8"	23/8"	5%"	2½" 1	'-8"	6" 8'-0"	9"	3'-0" 7'-5"	61/4"	5'-0" 8'-6	5" 8'-6'	40,000	6'-0"
2	Α	WF74 <i>G</i>	136'-5%"	PARTIAL	D B	1'-03/4	" 70°	70°	- 1'-03/	4" 7.3	5.8	34	13	2	31/8" 41	4" 9½'	13 TO (1	2'-9"	-	-	1'-0"	21/8"	21/8"	4%"	2½" 1	"-8" (6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0" 6'-0'	40,000	6'-0"
2	В	WF74G	136'-5%"	PARTIAL	D B	1'-03/4'	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2	31/8" 41	4" 9½'	13 TO (18	2'-9"	=	-	1'-0"	21/8"	2"	4¾"	2½" 1	"-8"	6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0'' 6'-0'	40,000	6'-0"
2	С	WF74G	136'-5¼"	PARTIAL	D B	1'-034'	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2	31/8" 41	4" 9½'	13 TO (18	2'-9"	ı	-	1'-0"	2"	2"	4¾"	2½" 1	"-8" (6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0'-0'	40,000	6'-0"
2	D	WF74 <i>G</i>	136'-51/8"	PARTIAL	D B	1'-034	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2			13 TO (-	-	1'-0"	1%"	2"	43/4"	2½" 1	'-8"	6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0'-0'	40,000	6'-0"
2	E	WF74 <i>G</i>	136'-4%"	PARTIAL	D B	1'-034	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2			13 TO (-	-	1'-0"	1%"	2"	4¾"	2½" 1	'-8"	6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0'' 6'-0'	40,000	6'-0"
2	F	WF74 <i>G</i>	136'-4¾"	PARTIAL	D B	1'-034	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2			13 TO (18		-	-	1'-0"	21/8"	2"	43/4"	2½" 1	"-8"	6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0'' 6'-0'	40,000	6'-0"
2	G	WF74 <i>G</i>	136'-4%"	PARTIAL	D B	1'-03/4	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2			13 TO (ı	-	1'-0"	21/8"	2"	4¾"	2½" 1	'-8"	6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0" 6'-0'	40,000	6'-0"
2	Н	WF74 <i>G</i>	136'-4%"	PARTIAL	D B	1'-034	" 70°	70°	- 1'-03/	7.3	5.8	34	13	2	31/8" 41	4" 9½'	13 TO (2'-9"	1	-	1'-0"	2"	21/8"	4%"	2½" 1	'-8"	6" 8'-0"	9"	3'-0" 7'-5"	51/8"	3'-0" 6'-0	0''-0'	40,000	6'-0"

GIRDER NOTES

- PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- 2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.9 KIPS PER STRAND).
- 3 FOR FIELD BENT STIRRUPS, PRE-BENT STIRRUPS ARE ALSO ACCEPTABLE.

Ζ.													
a	Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRIDG	E_SC	R\windo	w file	s∖wF74G	GIR 1.wnd			Γ
3	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
٩.	Designed By	Mizumori, A	06/20										
읽	Checked By	Howlett, K	12/21					10	WASH.				(
┧	Detailed By	McCarthy, D	10/19					TODA	II IMPED				ľ
4	Bridge Projects Engr.								NUMBER 007				
2	Prelim. Plan By							CONTE	RACT NO.				
	Architect/Specialist			DATE	REVISION	BY	APP'D						L







I-90 CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

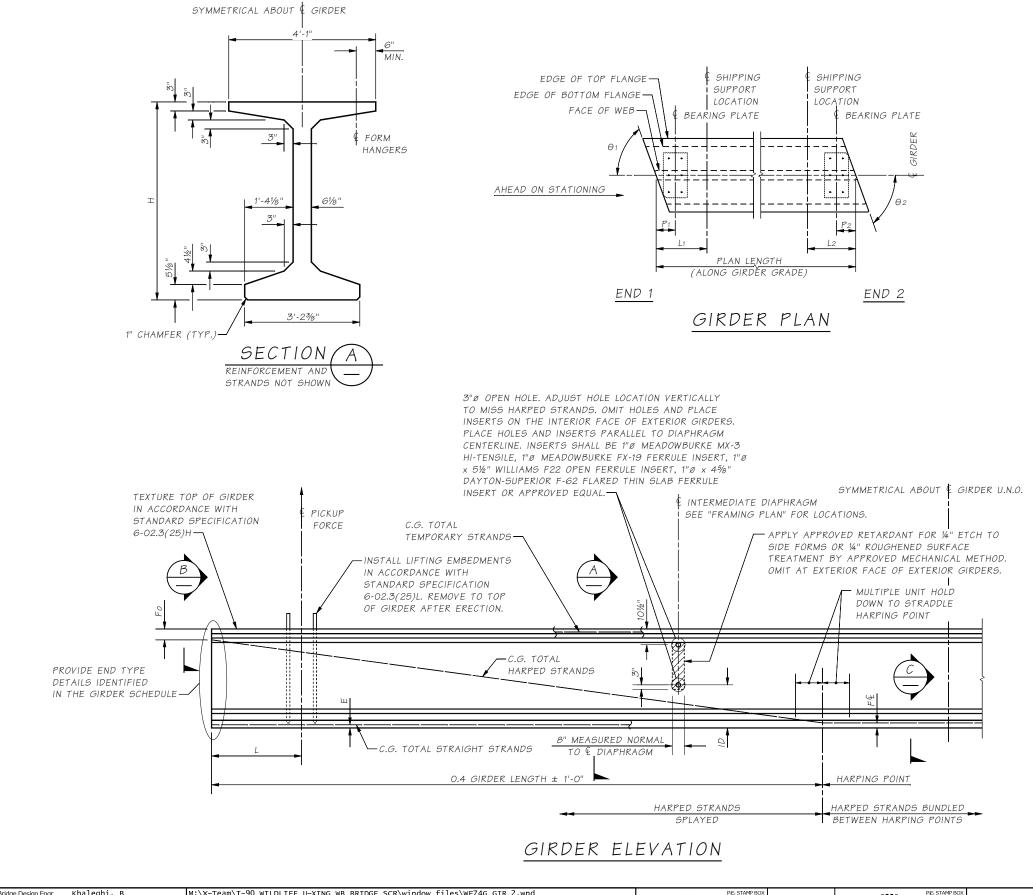
WF74G GIRDER DETAILS 1 OF 5 BRIDGE
SHEET
NO.

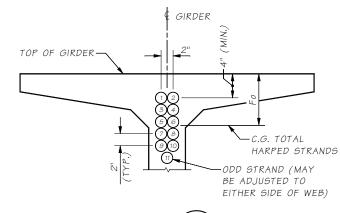
BJ37
SHEET

1568 OF 1783

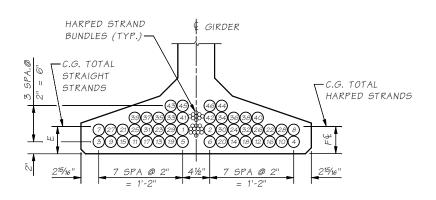
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GIRDER SERIES	H GIRDER HEIGHT	ID PARTIAL DEPTH INT. DIAPHRAGM	ID FULL DEPTH INT. DIAPHRAGM
WF36G	3'-0"	1'-21/8"	1'-21/8"
WF42G	3'-6"	1'-6"	1'-21/8"
WF50G	4'-2"	1'-91/2"	1'-21/8"
WF58G	4'-10"	2'-3"	1'-21/8"
WF66G	5'-6"	2'-4¾"	1'-21/8"
WF74 <i>G</i>	6'-2"	2'-8"	1'-21/8"
WF83G	6'-10%"	2'-15/8"	1'-21/8"
WF95G	7'-101/2"	3'-1½"	1'-21/8"
WF100 <i>G</i>	8'-4"	2'-8"	1'-21/8"

	Bridge Design Engr.	Khaleghi, B	3 / 1 = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -										
	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
	Designed By	Mizumori, A	06/20										Ī
1	Checked By	Howlett, K	12/21					10	WASH.			'	(/
1	Detailed By	McCarthy, D	10/19					700.					<i>Y</i>
	Bridge Projects Engr.								NUMBER 1007			'	'
	Prelim. Plan By							CONTI	RACT NO.			'	
	Architect/Coocialist			DATE	DEVICION	DV	V DDiD	1				1 '	1



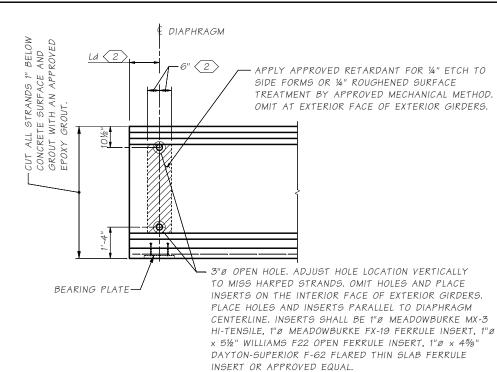




I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

WF74G GIRDER DETAILS 2 OF 5

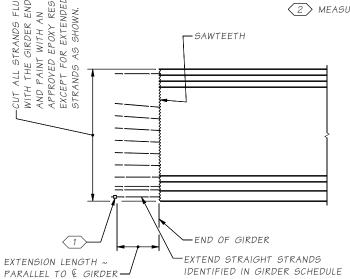
END TYPE A



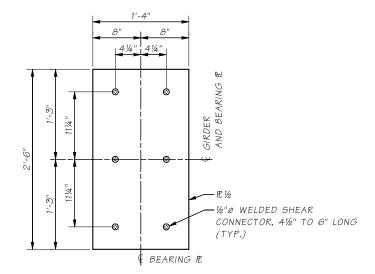
END TYPE B

NOTES:

- 111/16"Ø MIN. STRAND CHUCK OR ASTM A108 234"Ø x 11/8" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
- 2 MEASURED NORMAL TO € DIAPHRAGM

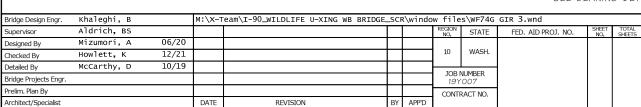


END TYPE D



BEARING PE DETAIL

PLATE SHALL BE HOT DIP GALVANIZED OR PAINTED WITH GALVANIZING REPAIR PAINT OR A ZINC-RICH PRIMER. SEE BEARING DETAILS SHEET FOR ADDITIONAL INFORMATION.





BRIDGE AND TRUCTURES OFFICE



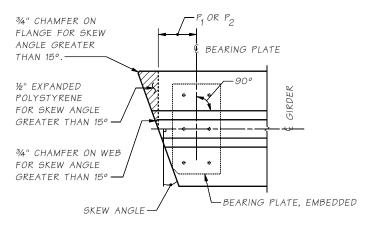


CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

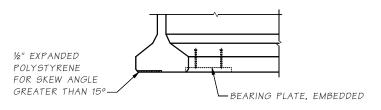
WF74G GIRDER DETAILS 3 OF 5

-HARPED STRANDS SAWTEETH AREA (TYP.)-END OF GIRDER -SAWTEETH DETAIL

> SAWTEETH SHALL BE FULL WIDTH OVER AREA SHOWN



PLAN



ELEVATION

BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION DETAIL

BEARING RECESS FORMS SHALL BE CONSTRUCTED AND FASTENED TO AVOID GIRDER DAMAGE DURING STRAND RELEASE.

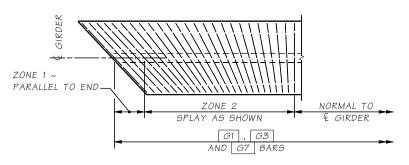
> BJ39 1570

> > 1783

GIRDER REINFORCEMENT NOTES

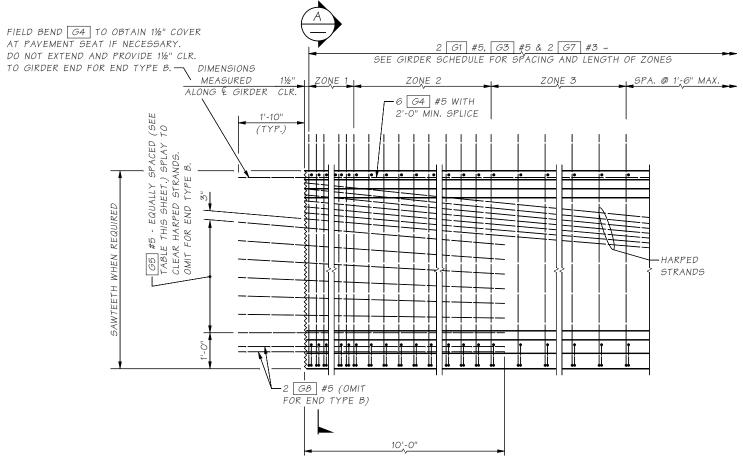
1. DEFORMED WELDED WIRE REINFORCEMENT MAY BE SUBSTITUTED FOR MILD REINFORCEMENT IN ACCORDANCE WITH STANDARD SPECIFICATION 6-02.3(25)A.

GIRDER SERIES	NO. OF G5 BARS
WF36G	3
WF42G	4
WF50 <i>G</i>	5
WF58G	6
WF66G	7
WF74G	7
WF83G	8
WF95G	9
WF100 <i>G</i>	10



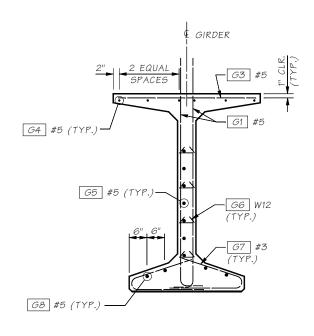
PLAN TRANSVERSE REINFORCING AT SKEWED ENDS

LENGTHS OF [G3] AND [G7] VARY WITH SKEW.
ONLY TRANSVERSE REINFORCEMENT SHOWN.



REINFORCEMENT END ELEVATION

WF66G SHOWN, OTHERS SIMILAR





BENDING (ALL DIMENSIONS	DIAGRAM ARE OUT TO OUT)
Ξ G1 ψ G2 ψ	- ξ ξ ξ ξ ξ ξ ξ ξ ξ ξ
FIELD BEND ALT. SIDES G6 8	1'-61/4" a 200
1'-8" α 2'-0" α R=2"	3'-03/8" α G10 β Ñ
α - VARIES FOR SKEWED ENDS. δ - #3 OR #4 MAY BE SUBSTITUT β - PAIRS OF G7 BARS, OR G9	AND G10 BARS, MAY BE USED

STRAIGHT AND TEMPORARY STRANDS NOT SHOWN FOR CLARITY.

Bridge Design Engr.	Khaleghi, B		M:\X-T	GIR 4.wnd			Γ					
Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1
Designed By	Mizumori, A	06/20										1
Checked By	Howlett, K	12/21					10	WASH.				1
Detailed By	McCarthy, D	10/19					700					/
Bridge Projects Engr.							JOB NUMBER 19Y007					l
Prelim. Plan By							CONT	RACT NO.				l
Architect/Specialist			DATE	REVISION	BY	APP'D						





I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

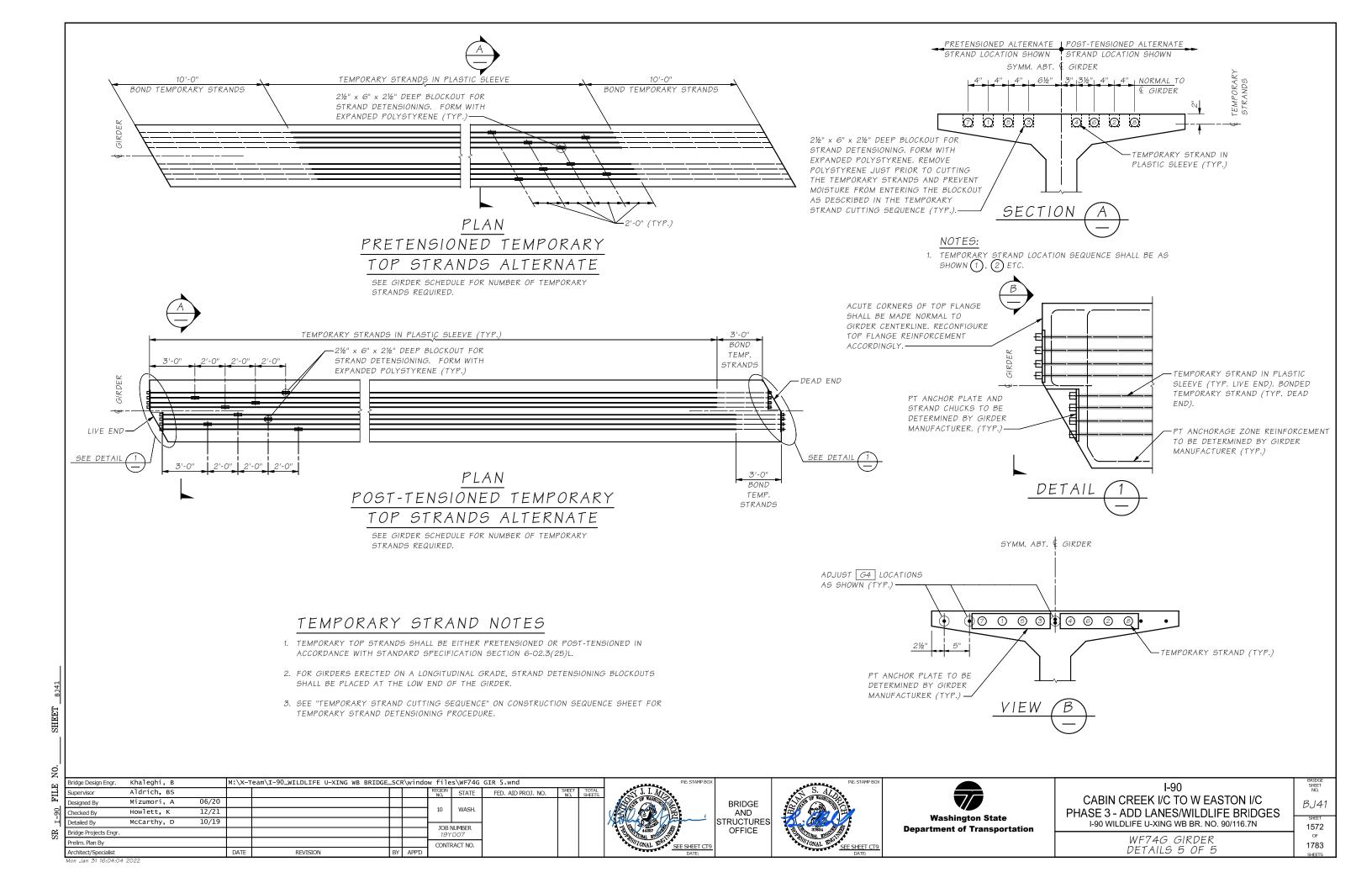
INTERCHANGEABLY AS BOTTOM FLANGE TIES. 4 - 1 G2 MAY BE SUBSTITUTED FOR 2 G1 WITHIN ZONE 1.

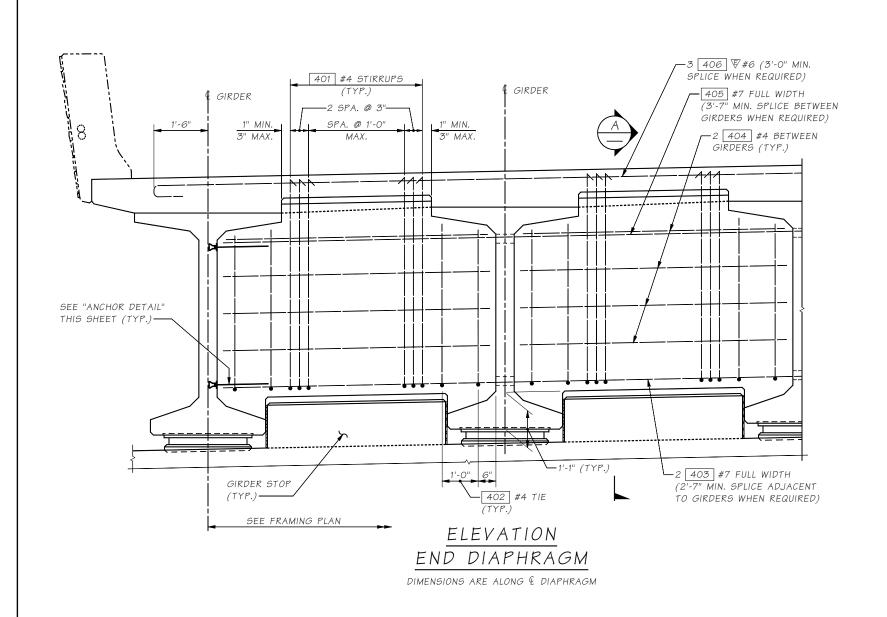
> WF74G GIRDER DETAILS 4 OF 5

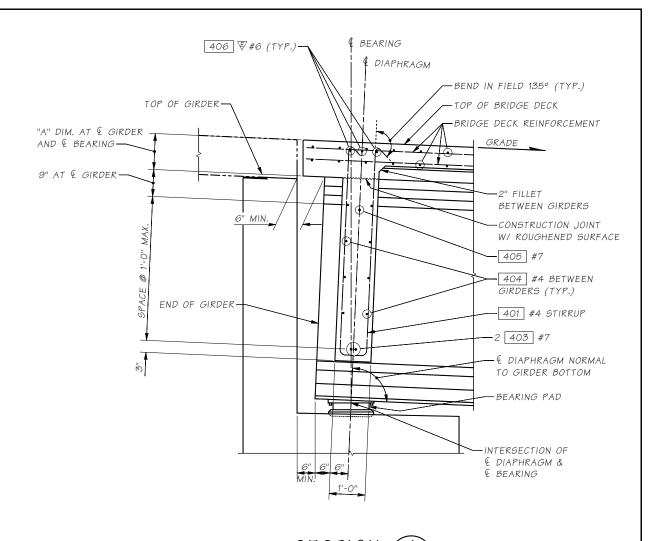
SHEET NO. BJ40

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1783

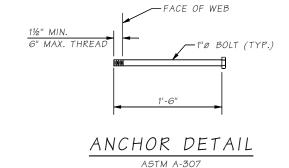






SECTION (A)

LONGITUDINAL DIMENSIONS ARE NORMAL TO DIAPHRAGM. GIRDER STOP NOT SHOWN FOR CLARITY.



DIAPHRAGM NOTES:

- GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- IT MAY BE NECESSARY TO THREAD #7 REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
- 3. CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
- 4. FOR CONCRETE PLACEMENT PROCEDURE SEE CONSTRUCTION SEQUENCE SHEETS.

	Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRI	DGE_SC	R\windo	w file	s\END DI	[APHRAGM.wnd			
	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	İ
	Designed By	Mizumori, A	06/20										ر ا
1	Checked By	Howlett, K	12/21					10	WASH.			1	10/
1	Detailed By	McCarthy, D	10/19					700.				1	<i>Y</i>
	Bridge Projects Engr.								NUMBER 1007			1	3
	Prelim. Plan By	•						CONTI	RACT NO.				
	Architect/Coocialist	<u> </u>		DATE	DEVICION.	DV	A DD'D	1		l	1	1	I

P.E. STAMP BOX

J. I. A

TABLE

TOWAL DETECTION

SEE SHEET CT9

DATE:



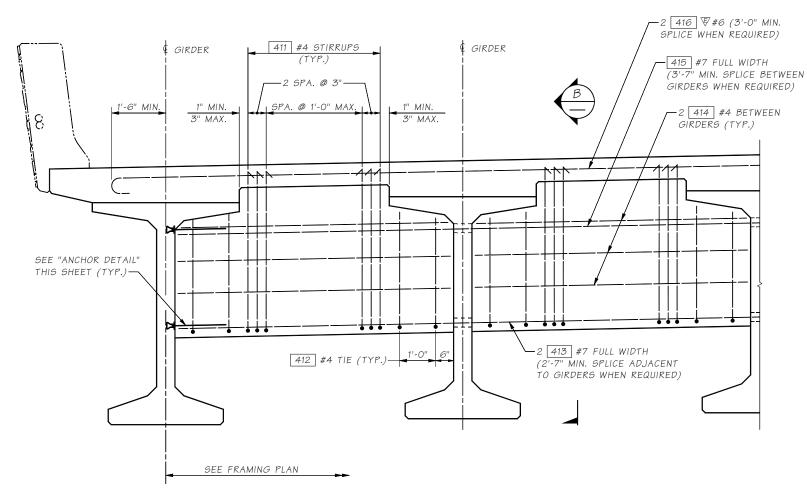


I-90 CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

END DIAPHRAGM DETAILS

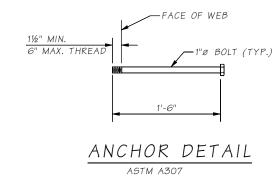
SHEET 1573 OF 1783

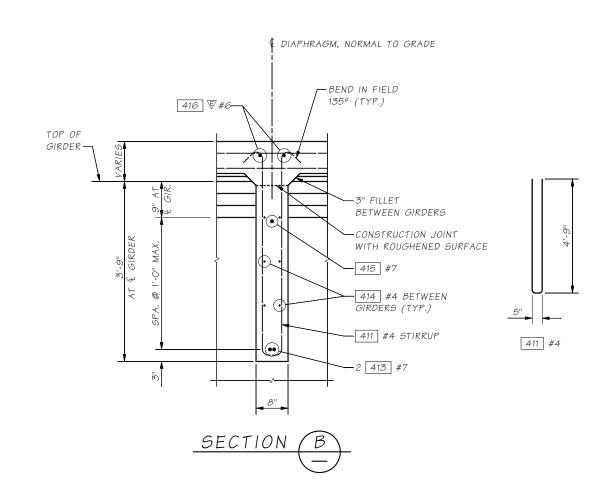
SHEET NO.



ELEVATION PARTIAL DEPTH INTERMEDIATE DIAPHRAGM

DIMENSIONS ARE ALONG DIAPHRAGM





NOTES:

- 1. GIRDERS SHALL BE HELD RIGIDLY IN PLACE WHEN DIAPHRAGMS ARE PLACED.
- 2. IT MAY BE NECESSARY TO THREAD REINFORCING BARS THROUGH HOLES IN GIRDERS PRIOR TO PLACING EXTERIOR GIRDERS.
- 3. CUT/RELEASE GIRDER TEMPORARY STRANDS BEFORE CASTING DIAPHRAGM. SEE TEMPORARY STRAND CUTTING SEQUENCE.
- 4. LONGITUDINAL DIMENSIONS ARE NORMAL TO SKEW.
- 5. FOR CONCRETE PLACEMENT PROCEDURE SEE "SUPERSTRUCTURE CONSTRUCTION SEQUENCE" SHEET.

Br	idge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\INTERM DIAPHRAGM.wnd								П
St	pervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1
. De	esigned By	Mizumori, A	06/20										Ι.
Ct	necked By	Howlett, K	12/21					10	WASH.				1 (/
De	etailed By	McCarthy, D	10/19					100	NII IMPED				X
Br	ridge Projects Engr.								NUMBER 1007				'
Pr	elim. Plan By							CONT	RACT NO.				
Ar	rchitect/Specialist	•		DATE	REVISION	BY	APP'D						







I-90 CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

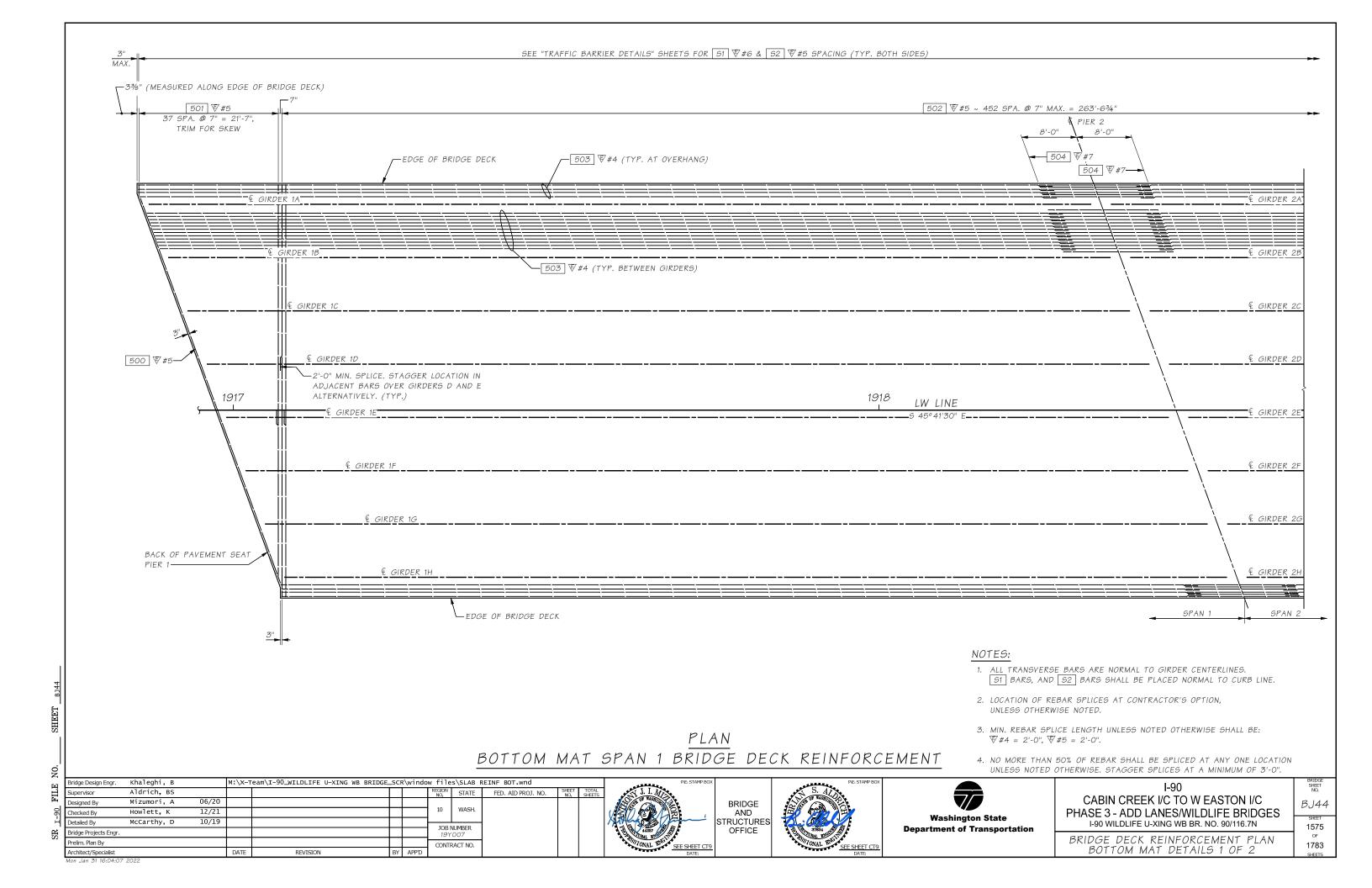
INTERMEDIATE DIAPHRAGM DETAILS

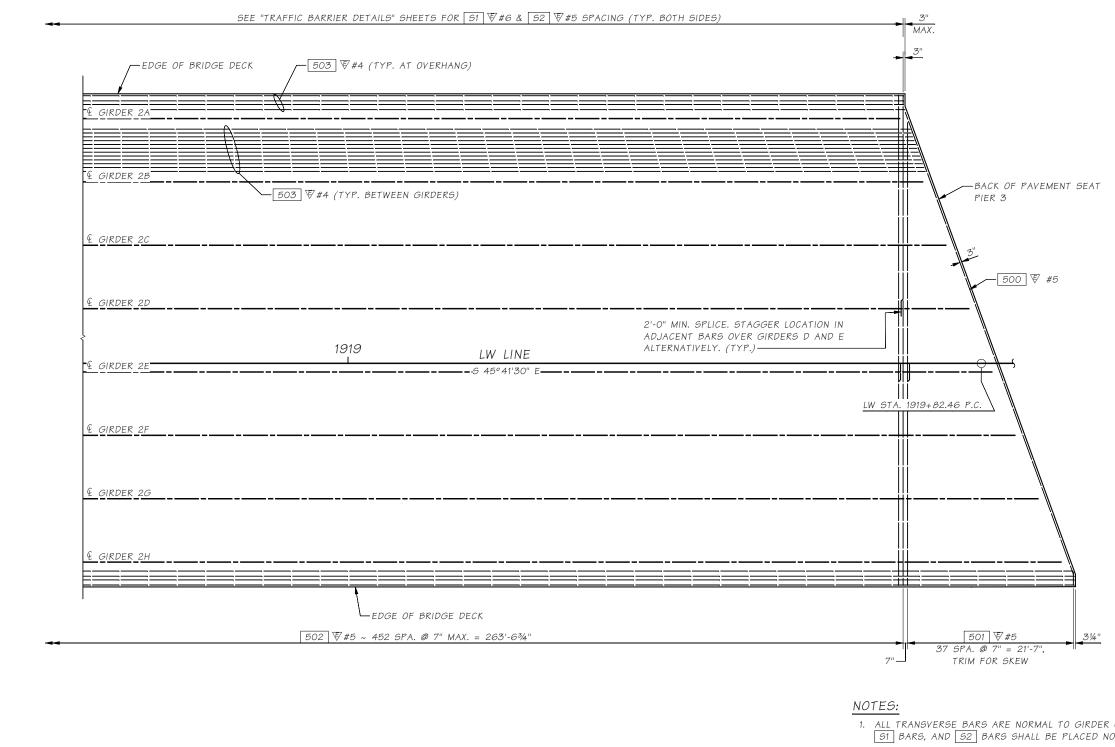
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1783





- 1. ALL TRANSVERSE BARS ARE NORMAL TO GIRDER CENTERLINES. [S1] BARS, AND [S2] BARS SHALL BE PLACED NORMAL TO CURB LINE.
- 2. LOCATION OF REBAR SPLICES AT CONTRACTOR'S OPTION, UNLESS OTHERWISE NOTED.
- 3. MIN. REBAR SPLICE LENGTH UNLESS NOTED OTHERWISE SHALL BE: ₹#4 = 2'-0", ₹#5 = 2'-0".
- 4. NO MORE THAN 50% OF REBAR SHALL BE SPLICED AT ANY ONE LOCATION UNLESS NOTED OTHERWISE. STAGGER SPLICES AT A MINIMUM OF 3'-O".

Ζ.													
a	Bridge Design Engr.	Khaleghi, B		M:\X-T	Team\I-90_WILDLIFE U-XING WB BRIDG	E_SC	R\windo	w file	s\SLAB F	REINF BOT 2.wnd			
3	Supervisor	Aldrich, BS						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	i
٩.	Designed By	Mizumori, A	06/20										
8	Checked By	Howlett, K	12/21					10	WASH.				
H	Detailed By	Bontemps, W	05/20					TOD	II IMPED				<i>Y</i> }
4	Bridge Projects Engr.								NUMBER 1007		1		ا ا

CONTRACT NO.



PLAN

BOTTOM MAT SPAN 2 BRIDGE DECK REINFORCEMENT

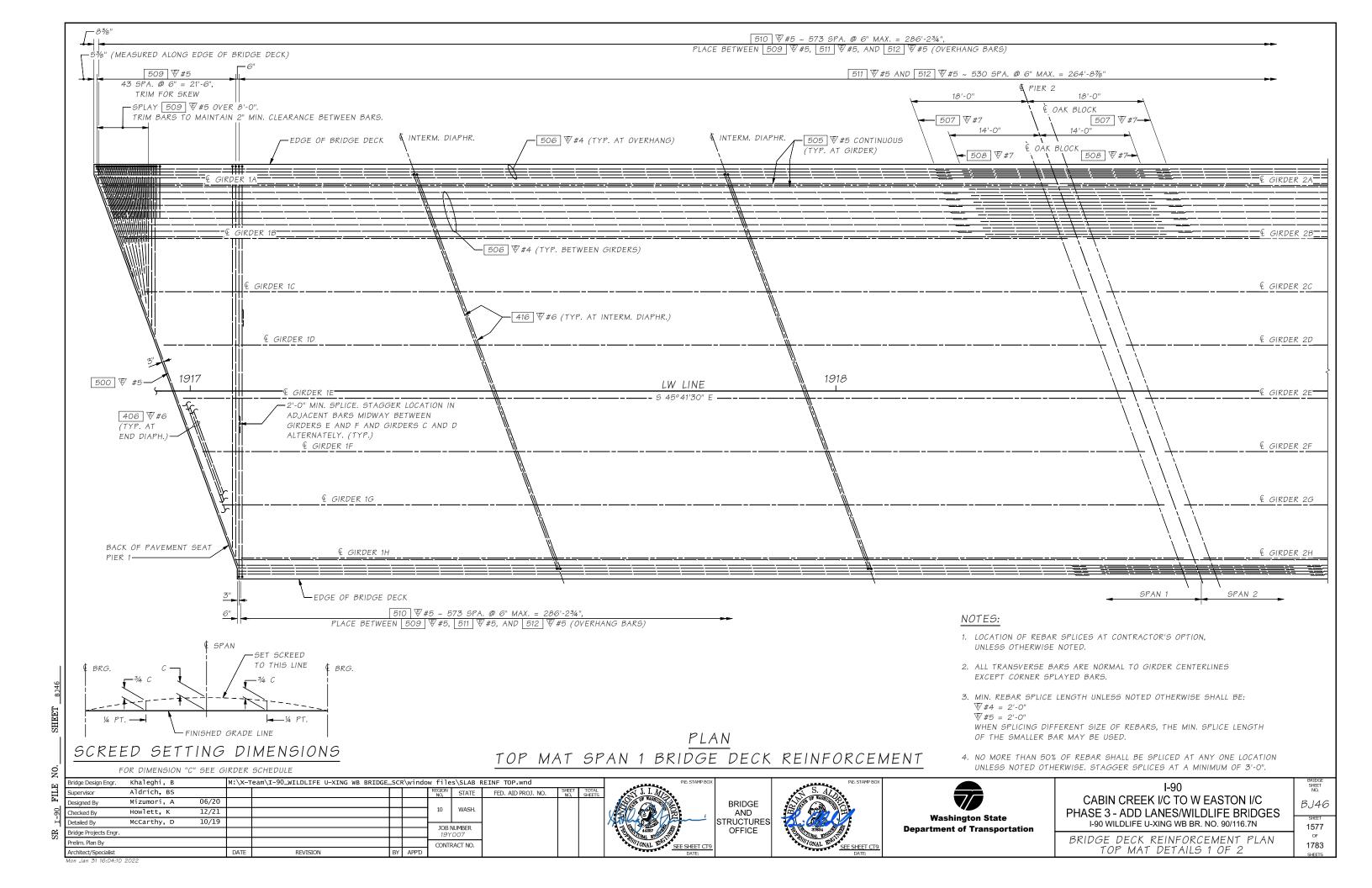


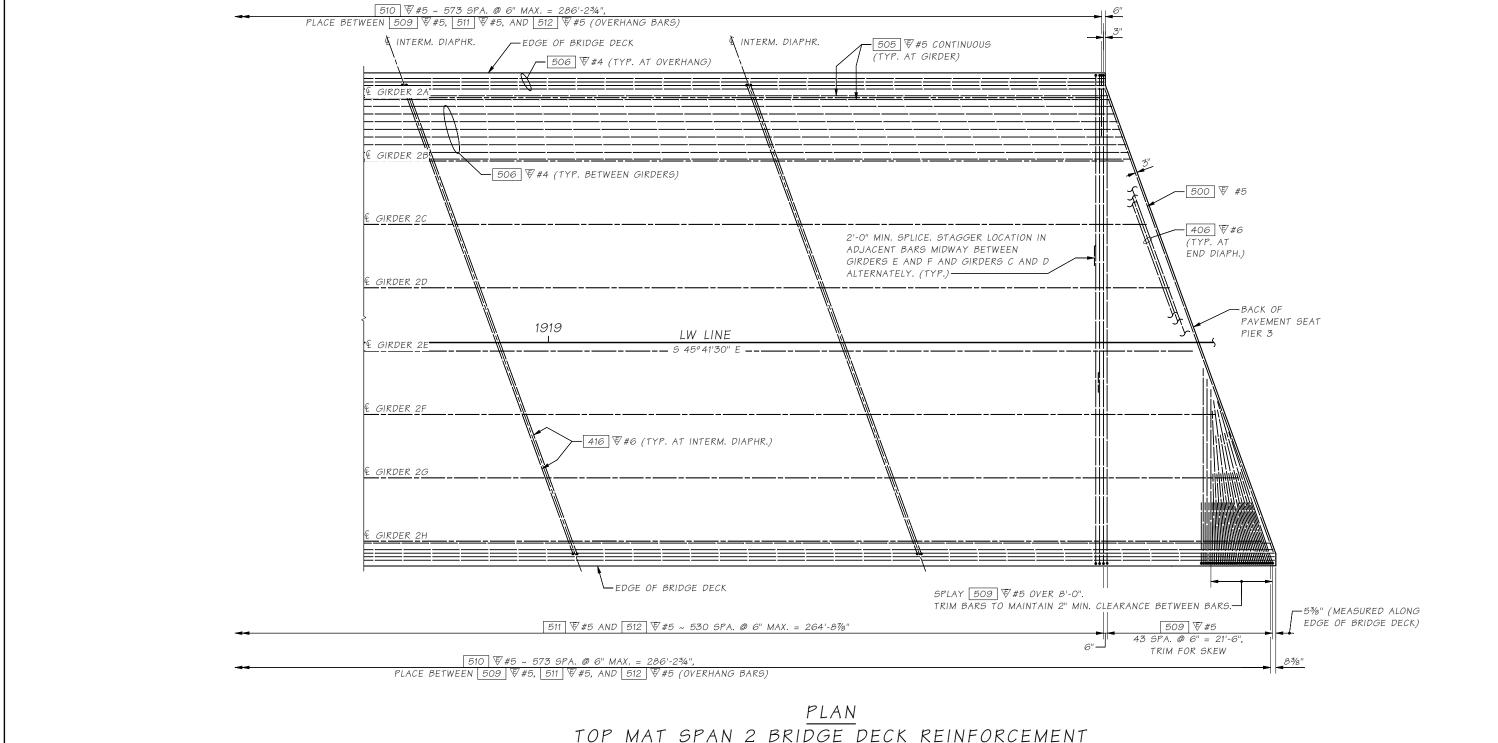


CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

BRIDGE DECK REINFORCEMENT PLAN BOTTOM MAT DETAILS 2 OF 2

Prelim. Plan By





TOP MAT SPAN 2 BRIDGE DECK REINFORCEMENT

NOTES:

- 1. LOCATION OF REBAR SPLICES AT CONTRACTOR'S OPTION, UNLESS OTHERWISE NOTED.
- 2. ALL TRANSVERSE BARS ARE NORMAL TO GIRDER CENTERLINES EXCEPT CORNER SPLAYED BARS.
- 3. MIN. REBAR SPLICE LENGTH UNLESS NOTED OTHERWISE SHALL BE: ₩#4 = 2'-0" ₹#5 = 2'-0" WHEN SPLICING DIFFERENT SIZE OF REBARS, THE MIN. SPLICE LENGTH OF THE SMALLER BAR MAY BE USED.
- 4. NO MORE THAN 50% OF REBAR SHALL BE SPLICED AT ANY ONE LOCATION UNLESS NOTED OTHERWISE. STAGGER SPLICES AT A MINIMUM OF 3'-O".

	Bridge Design Engr.	Khaleghi, B		M:\X-T	Feam\I-90_WILDLIFE U-XING WB BRIDG	E_SCI	R\windo	w file	s\SLAB F	EINF TOP 2.wnd			
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	Architect/Specialist			DATE	REVISION	BY	APP'D						l

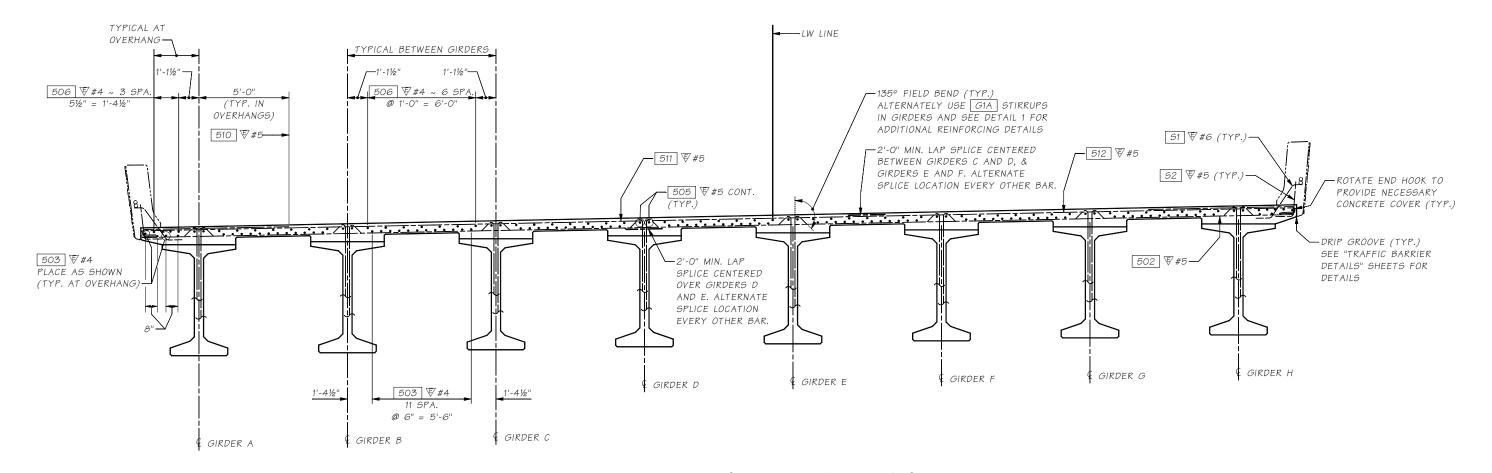






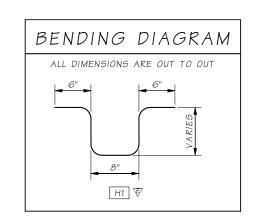
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CABIN CREEK I/C TO W EASTON I/C	
PHASE 3 - ADD LANES/WILDLIFE BRIDGES	
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N	
	-

BRIDGE DECK REINFORCEMENT PLAN TOP MAT DETAILS 2 OF 2



BRIDGE DECK REINFORCEMENT SECTION NEAR END PIERS AND MID-SPANS

TRANSVERSE DIMENSIONS ARE NORMAL TO & GIRDER.



GIRDER H2 \$\vert \text{#5 with 2'-0"} MIN. LAP SPLICE BRIDGE DECK REINFORCING (TYP.) SUND BRIDGE STIRRUPS AND PLACE VERTICALLY. 1 BRIDGE DECK REINFORCING (TYP.) GIA #5 GIRDER STIRR.

NOTES:

1 H1 ♥#5 STIRRUP AND H2 ♥#5 MAY BE OMITTED AT LOCATIONS WHERE GIRDER STIRRUPS PROJECT AT LEAST 3" ABOVE THE BOTTOM OF THE TRANSVERSE BAR IN THE BOTTOM MAT OF THE BRIDGE DECK.

Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BR	IDGE_SC	R\windo	ow file	s\SLAB F	EINF SECT 1.wnd			Γ
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BRIDGE AND TRUCTURES OFFICE



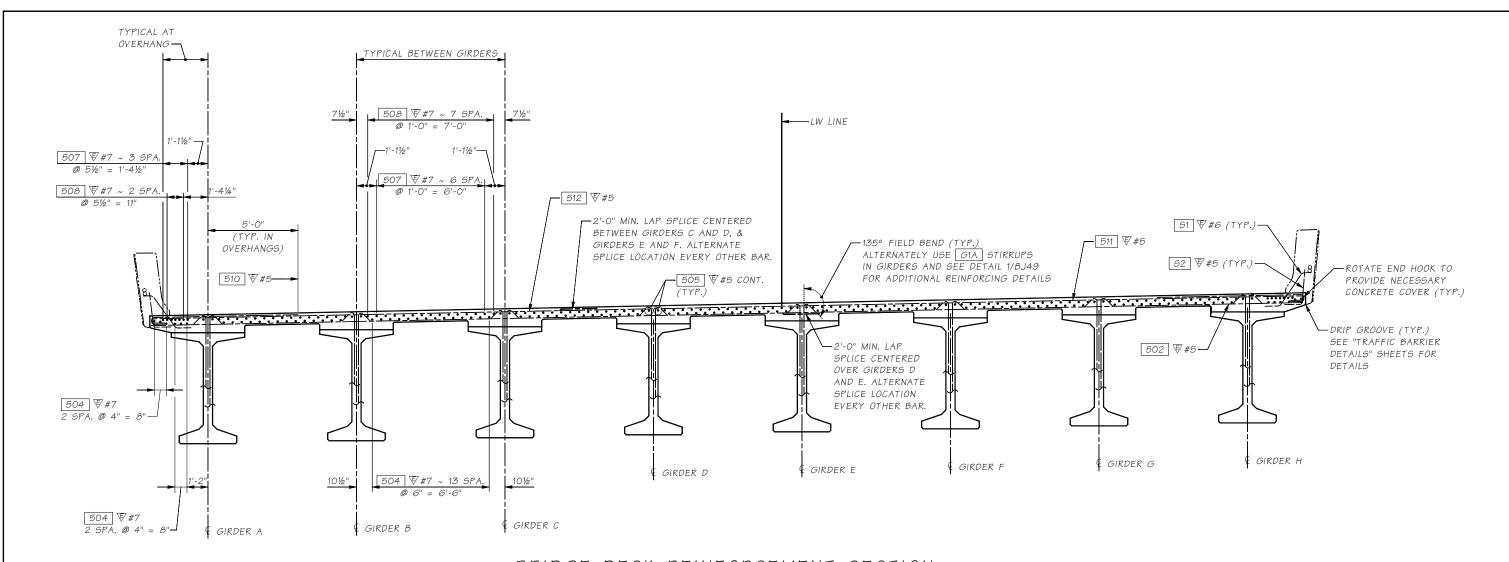
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CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

BRIDGE DECK REINFORCEMENT SECTION DETAIL 1 OF 2 SHEET 1579 OF 1783 SHEETS

Architect/Specialist

). SHEET B148

-90 FILE NO



BRIDGE DECK REINFORCEMENT SECTION NEAR PIER 2

TRANSVERSE DIMENSIONS ARE NORMAL TO & GIRDER.

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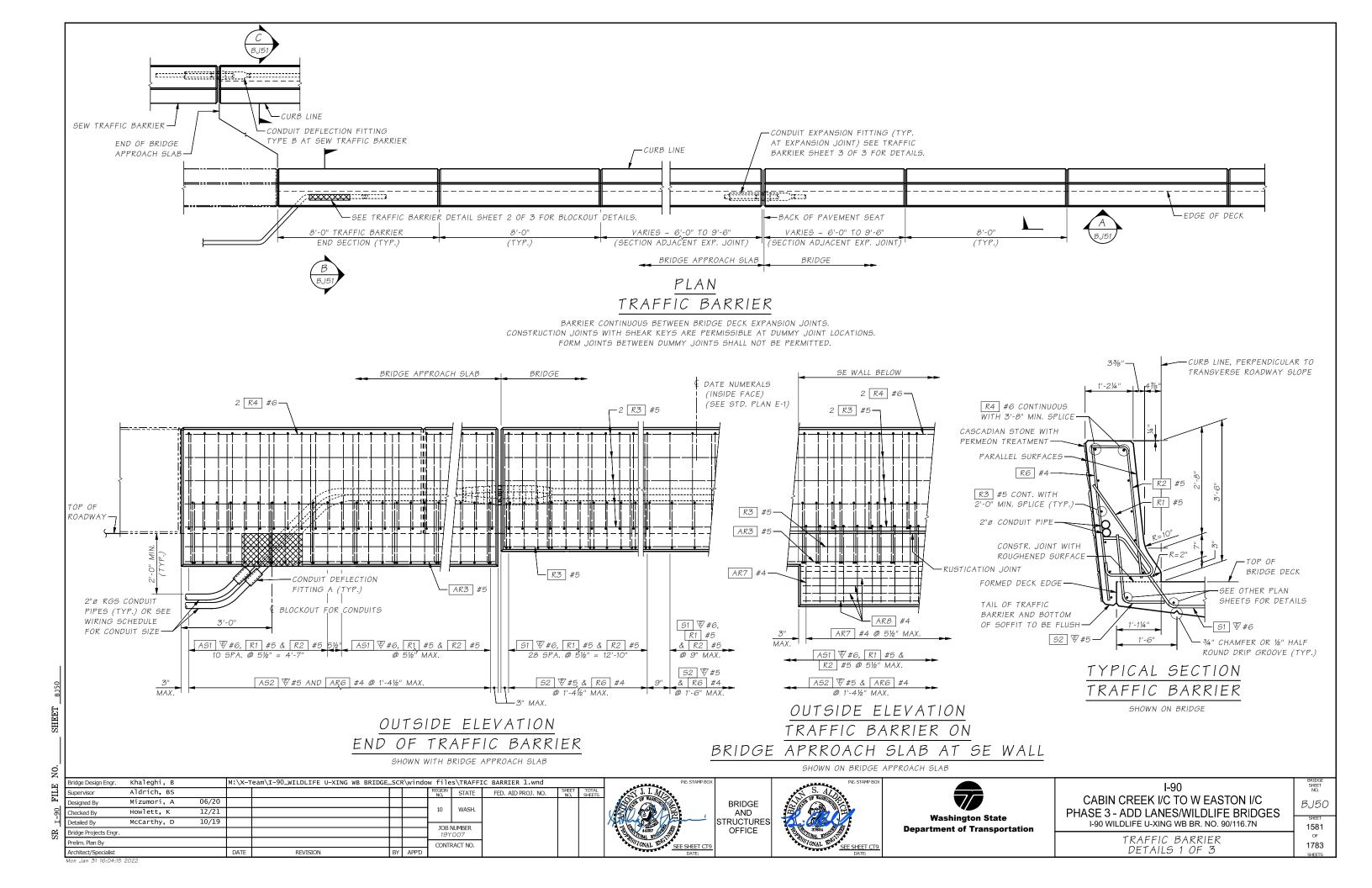


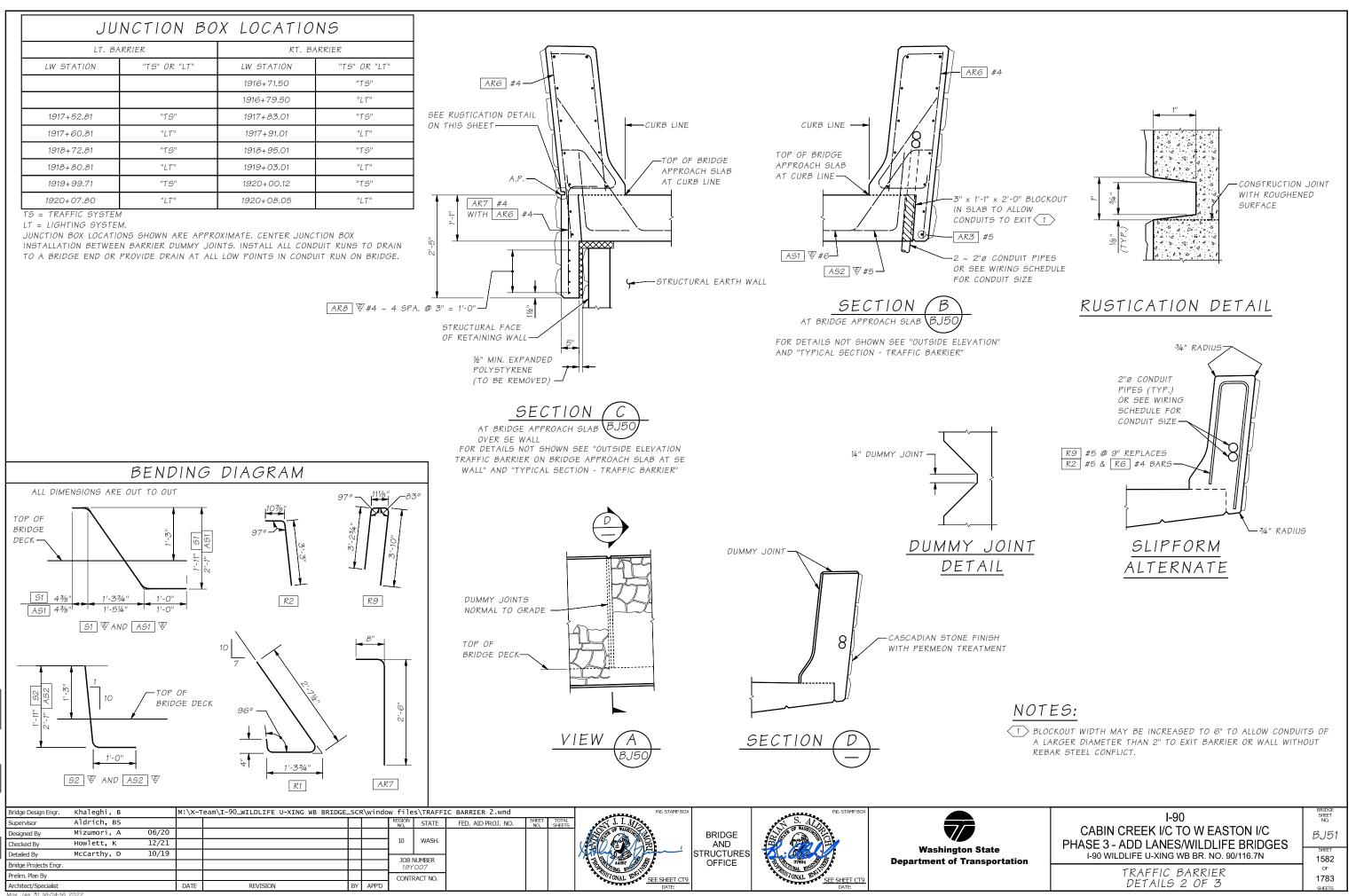
I-90 CABIN CREEK I/C TO W EASTON I/C PHASE 3 - ADD LANES/WILDLIFE BRIDGES I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

BRIDGE DECK REINFORCEMENT SECTION DETAIL 2 OF 2

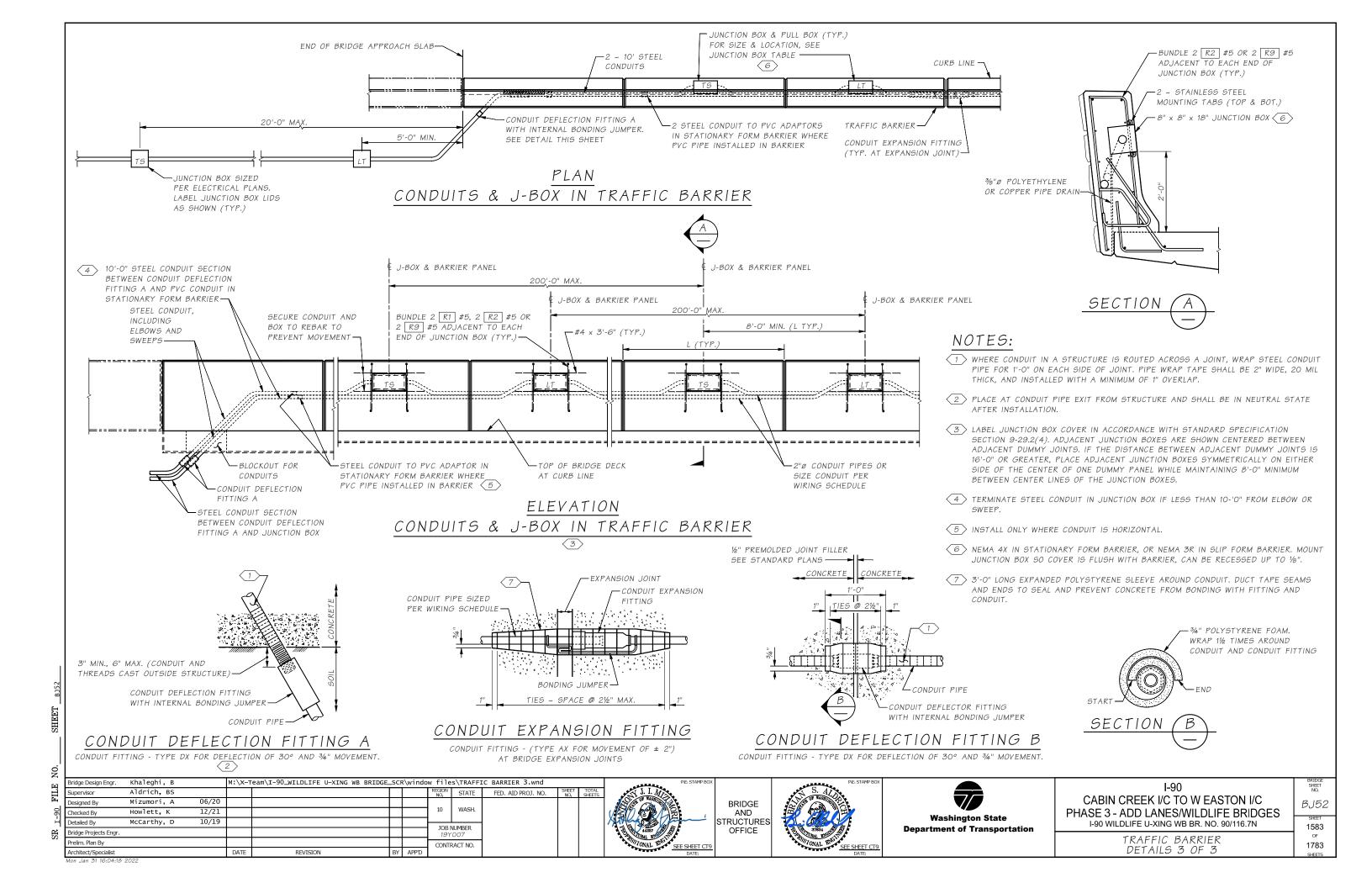
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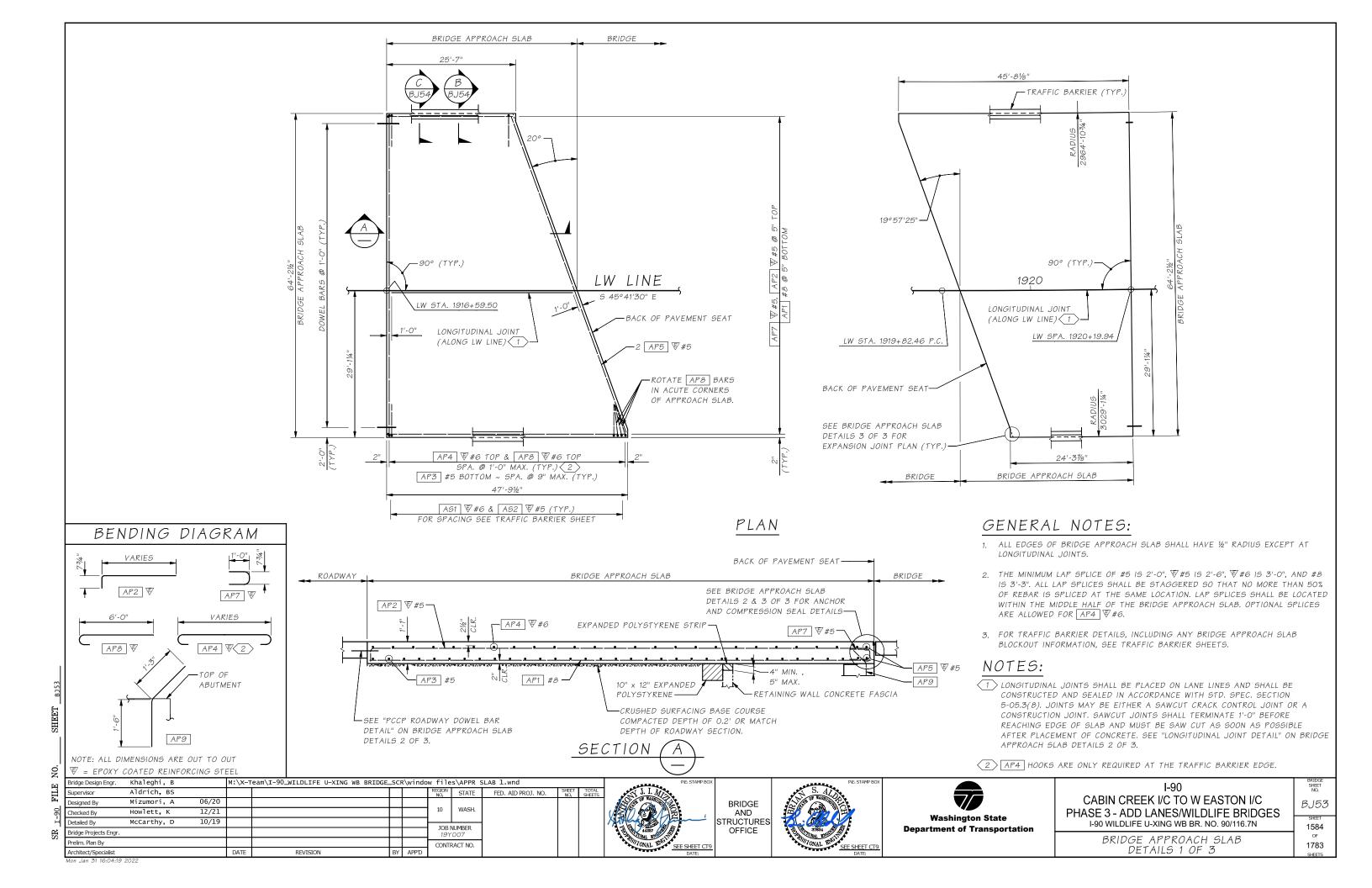
BRIDGE AND STRUCTURES OFFICE





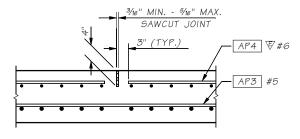
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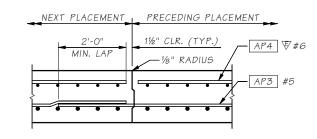


PCCP ROADWAY DOWEL BAR DETAIL

PCCP ROADWAY DOWELS SHALL BE INSTALLED PARALLEL TO ROADWAY AND TO EACH OTHER.

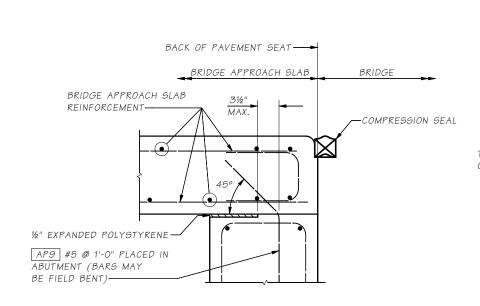


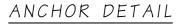
LONGITUDINAL JOINT DETAIL

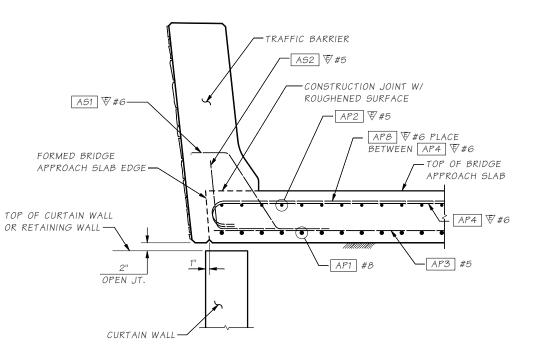


ALTERNATE LONGITUDINAL JOINT DETAIL

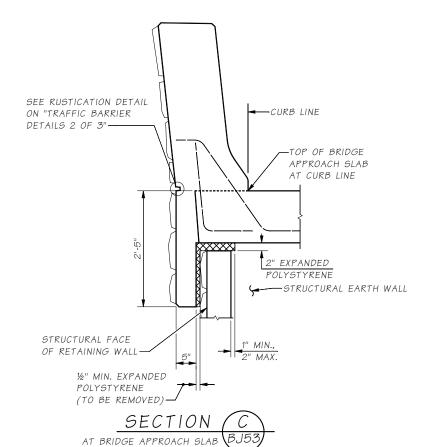
EDGE PRECEDING PLACEMENT ONLY WITH 1/8" RADIUS.











FOR DETAILS NOT SHOWN SEE "OUTSIDE ELEVATION
TRAFFIC BARRIER ON BRIDGE APPROACH SLAB AT SE
WALL" AND "TYPICAL SECTION - TRAFFIC BARRIER"

				RIER ON BRIDGE APPROACH SLA TYPICAL SECTION - TRAFFIC BA
n Engr. Khaleghi, B	M:\X-Team\I-90_WILDLIFE U-XING WB BRIDGE_SCR\window files\APPR SLAB 2.wnd	P.E. STAMP BOX	P.E. STAMP BOX	1.0

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I-90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

BJ54

Department of Transportation

I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

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OF

DETAILS 2 OF 3

SHEETS

COMPRESSION SEAL DETAIL

EXPANSION JOINT AT BACK OF PAVEMENT SEAT

NOTES:

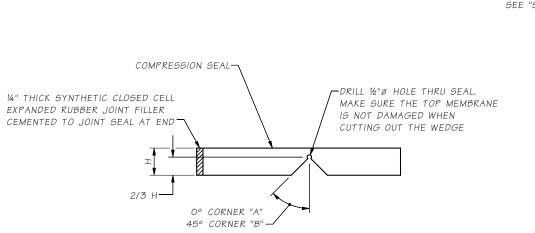
1 FULLY COMPRESSED SEAL HEIGHT, SEAL HEIGHT VARIES WITH MANUFACTURER, VERIFY PRIOR TO SLAB CONSTRUCTION.

COMPRESSION SEAL TABLE

D.S. BR	COWN	WATSON AC	
SEAL	WIDTH	SEAL	WIDTH
CV-3500	3½	WA-350	3½

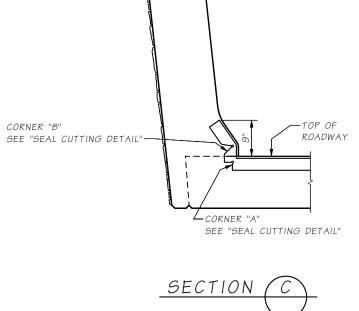
TESTING SHALL BE PER ASTM D 2628 PRIOR TO USE.

OPENING C	9 (NORMAL	TO JOINT)
@ 40°F	@ 64°F	@ 80°F
23/8"	21/8"	2"



SEAL CUTTING DETAIL

- SKEW ANGLE BACK OF PAVEMENT SEAT-CURB LINE -TRAFFIC BARRIER -EXPANSION JOINT



Bridge Design Engr.	Khaleghi, B		M:\X-T	eam\I-90_WILDLIFE U-XING WB BRIDGE	_SCF	R\windo	w file	s\APPR S	SLAB 3.wnd		
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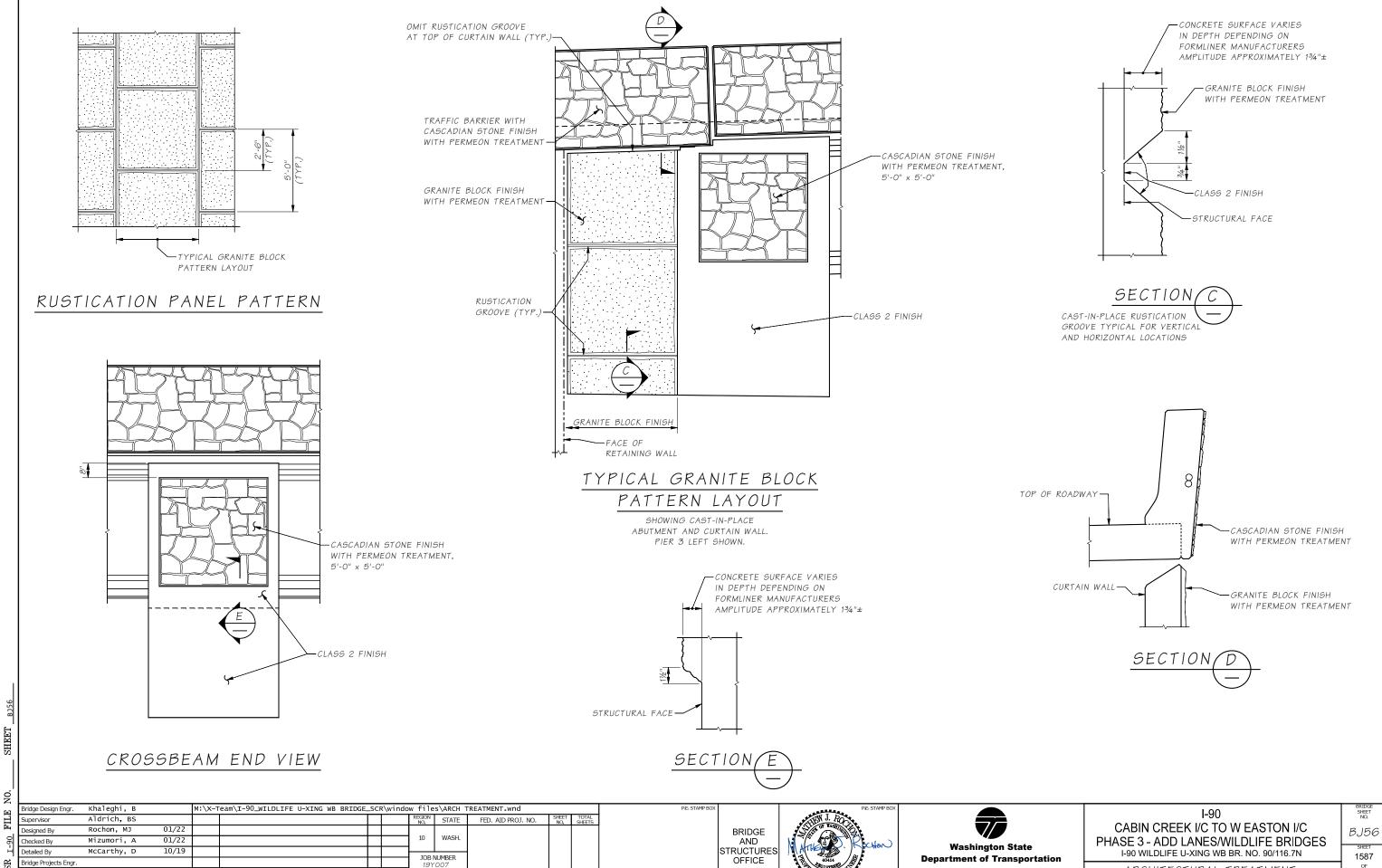
BRIDGE AND STRUCTURES OFFICE





I - 90
CABIN CREEK I/C TO W EASTON I/C
PHASE 3 - ADD LANES/WILDLIFE BRIDGES
I-90 WILDLIFE U-XING WB BR. NO. 90/116.7N

BRIDGE APPROACH SLAB DETAILS 3 OF 3



SEE SHEET CT9

CONTRACT NO.

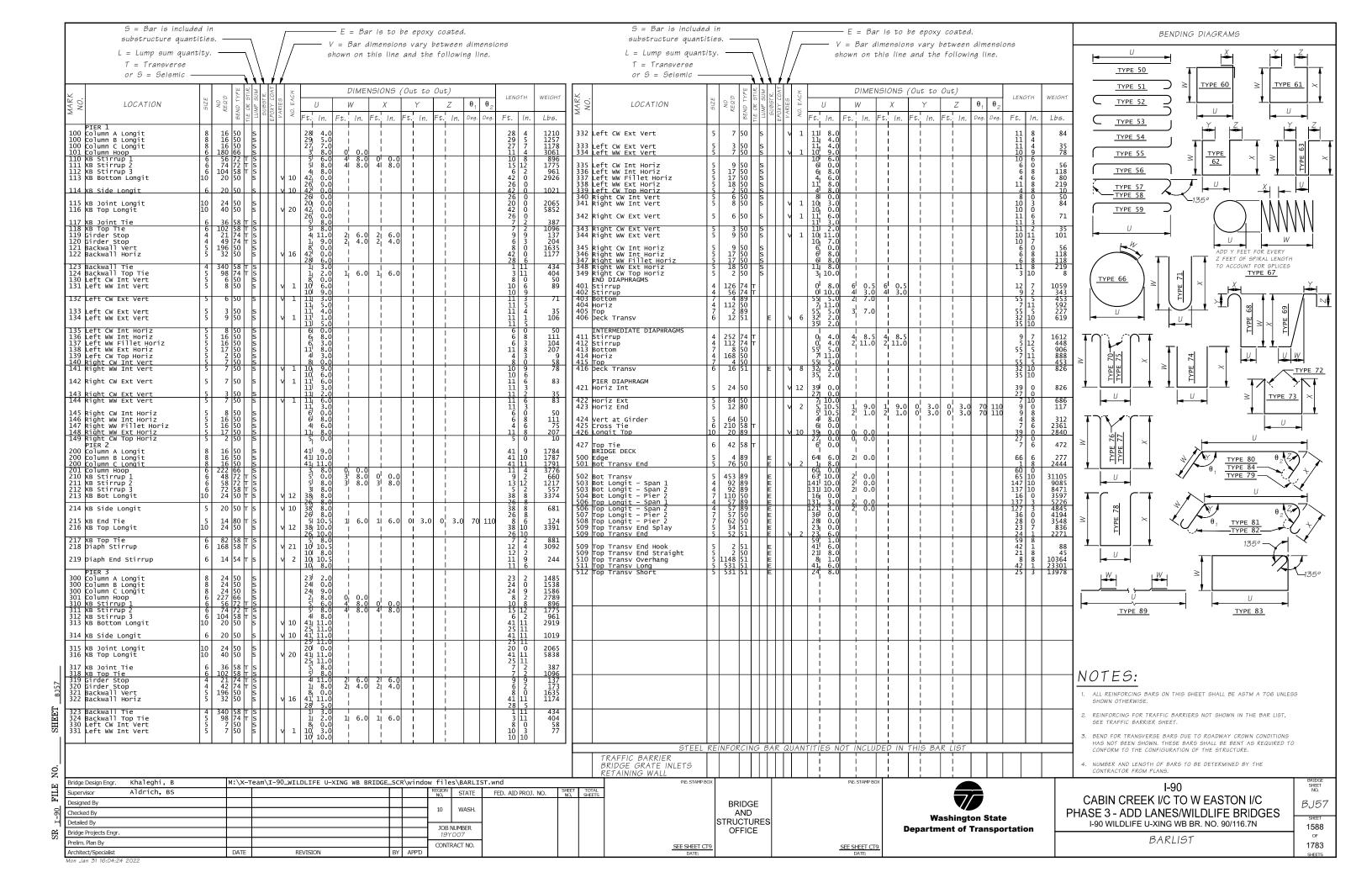
ARCHITECTURAL TREATMENT

1783

Architect/Specialist

DATE

Prelim. Plan By



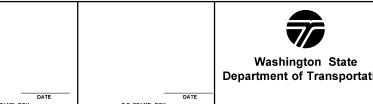
SHEET NO.	PLAN REFERENCE NO.	TITLE
		SPARKS ROAD BRIDGE EB
1589	INB11	INDEX BRIDGE
1590	BK1	LAYOUT
1591	BK2	GENERAL NOTES
1592	BK3	CONSTRUCTION SEQUENCE
1593	BK4	FOUNDATION LAYOUT
1594	BK5	PEIR 1 PLAN
1595	BK6	PIER 1 ELEVATION
1596	BK7	PIER 1 DETAILS
1597	BK8	PIER 2 PLAN
1598	BK9	PIER 2 ELEVATION
1599	BK10	PIER 2 DETAILS
1600	BK11	SW CURTAIN WALL DETAILS
1601	BK12	SE CURTAIN WALL DETAILS
1602	BK13	GIRDER STOP DETAILS
1603	BK14	FRAMING PLAN
1604	BK15	TYPICAL SECTION
1605 - 1607	BK16 - BK18	SLAB GIRDER DETAILS
1608	BK19	SLAB GIRDER END DIA PHRAGM
1609	BK20	BRIDGE DECK REINFORCEMENT PLAN
1610	BK21	BRIDGE DECK REINFORCEMENT SECTION
1611 - 1613	BK22 - BK24	APPROACH SLAB DETAILS

SHEET NO.	PLAN REFERENCE NO.	TITLE
1614 - 1617	BK25 - BK28	TRAFFIC BARRIER - SHAPE F 42 IN. DETAILS
1618 - 1619	BK29 - BK30	ARCHITECTURAL DETAILS
1620	BK31	BARLIST

PLAN REF NO ¢¢## SHEET OF ## SHEETS

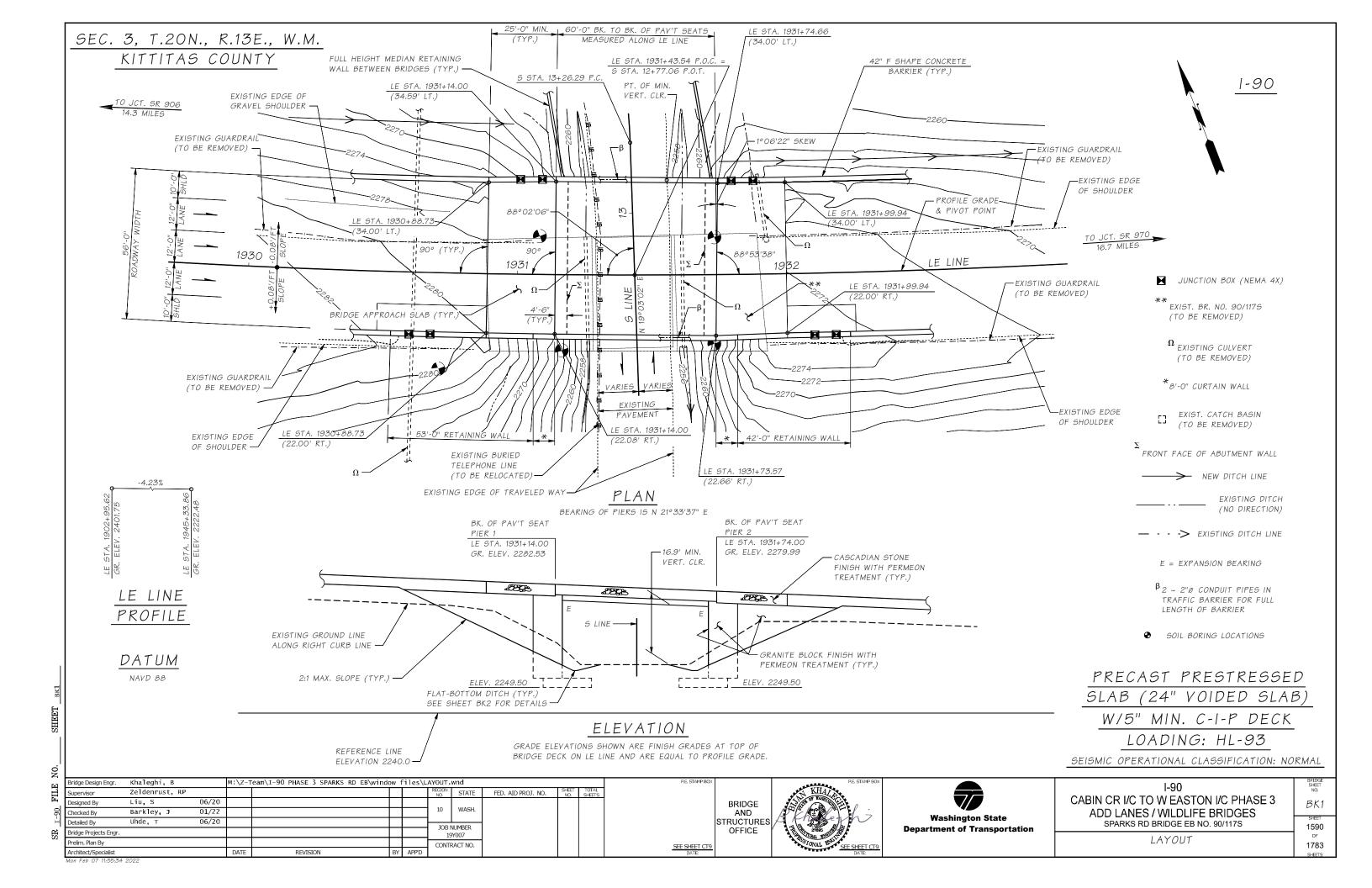
NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN

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		Plot 12
	I-90	PLAN REF NO
	CABIN CREEK I/C TO W EASTON I/C	INB11
ite ortation	PHASE 3 - ADD LANES/WILDLIFE BRIDGES	SHEET 1589 OF
	INDEX BRIDGE	1783

1589 OF 1783 SHEETS



CURVE DATA											
P.I. STATION	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.							
LE 1928+90.63	36°01'30" LT.	3108.00'	1010.60'	1954.17'	S 45°41'30" E						
S 13+57.61	17°48'13" LT.	200.00'	31.33'	62.15'	N 19°03'02" E						

GENERAL NOTES

- 1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022.
- 2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 35 POUNDS PER SQUARE FOOT.
- 3. THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION 2011, USING SEISMIC DESIGN CATEGORY A, SITE CLASS C, A PEAK GROUND ACCELERATION OF 0.23, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.52 AND 0.15, RESPECTIVELY, ON SITE CLASS B.
- 4. THE CONCRETE IN BRIDGE DECKS SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- 5. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-09.3(1)E.
- 6. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 3" AT THE BOTTOM OF FOOTING, AND 2" AT ALL OTHER LOCATIONS.
- 7. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- 8. CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.
- 9. NOMINAL BEARING RESISTANCE OF SPREAD FOOTING SHALL BE TAKEN AS FOLLOWS:

PIER NO.	SERVICE LIMIT STATE	STRENGTH LIMIT STATE	EXTREME 1 LIMIT STATE
1	16 KSF	44.4 KSF	22.2 KSF
2	16 KSF	44.4 KSF	22.2 KSF

- 10. THE 42 IN. TRAFFIC BARRIER HAS BEEN DESIGNED IN ACCORDANCE WITH AASHTO LRFD DESIGN SPECIFICATION TEST LEVEL 5.
- 11. SNOW ACCUMULATION ON COMPLETED BRIDGE DECKS CLOSED TO TRAFFIC SHALL NOT EXCEED 4'-O" DEPTH. ANY SNOW REMOVAL EQUIPMENT SHALL NOT EXCEED LEGAL LOAD LIMITS.

	Bridge Design Engr.	Khaleghi, B		M:\Z−T	Team\I-90 PHASE 3 SPARKS RD EB\windo	ow f	iles\G	ENERAL	NOTES.V	/nd			Γ
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ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

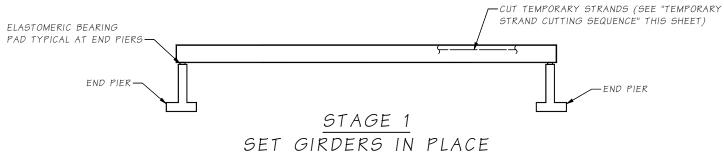
GENERAL NOTES

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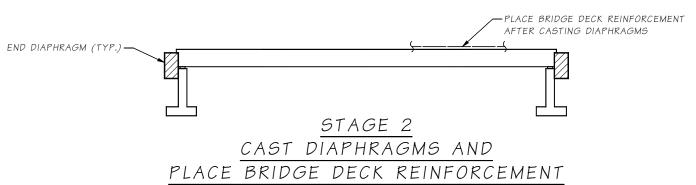
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1591 OF 1783

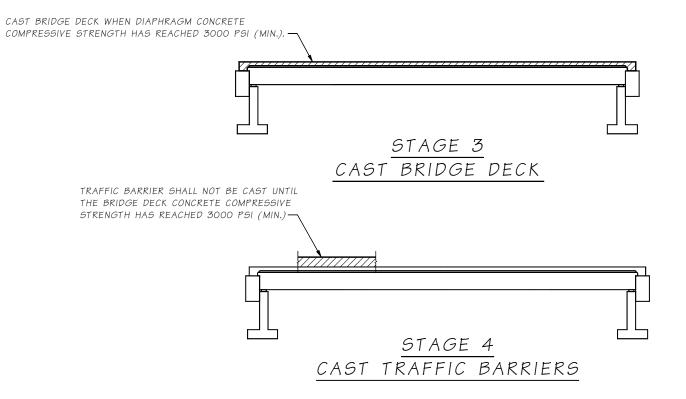
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INSTALL TEMPORARY BRACING FOR ERECTION IN ACCORDANCE WITH SECTION 6-02.3(17)F4.



INSTALL TEMPORARY BRACING FOR DIAPHRAGM AND DECK PLACEMENT IN ACCORDANCE WITH SECTION 6-02.3(17)F5.



CONSTRUCTION SEQUENCE ~ SUPERSTRUCTURE

2																		
Bridge Design Engr. Khaleghi, B M:\Z-Team\I-90 PHASE 3 SPARKS RD EB\window files\CONSTRUCTION SEQUENCE.w										QUENCE.wnd	nd							
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BRIDGE AND STRUCTURES OFFICE





I-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE EB NO. 90/117S

TEMPORARY STRAND

CUTTING SEQUENCE

2. REMOVE EXPANDED POLYSTYRENE IN 2" x 6" RECESSES IN

3. CUT STRANDS IN 2" x 6" RECESSES. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND

TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO

RELEASED IN A SYMMETRICAL MANNER AROUND THE GIRDER CENTERLINE STARTING WITH THOSE NEAREST THE

4. REMOVE ALL MOISTURE IN RECESS PRIOR TO FILLING

CENTERLINE AND WORKING OUTWARDS.

LESSEN THE SHOCK TO THE GIRDER. STRANDS SHALL BE

1. ERECT AND BRACE GIRDERS.

TOP FLANGE OF GIRDERS.

RECESS WITH GROUT.

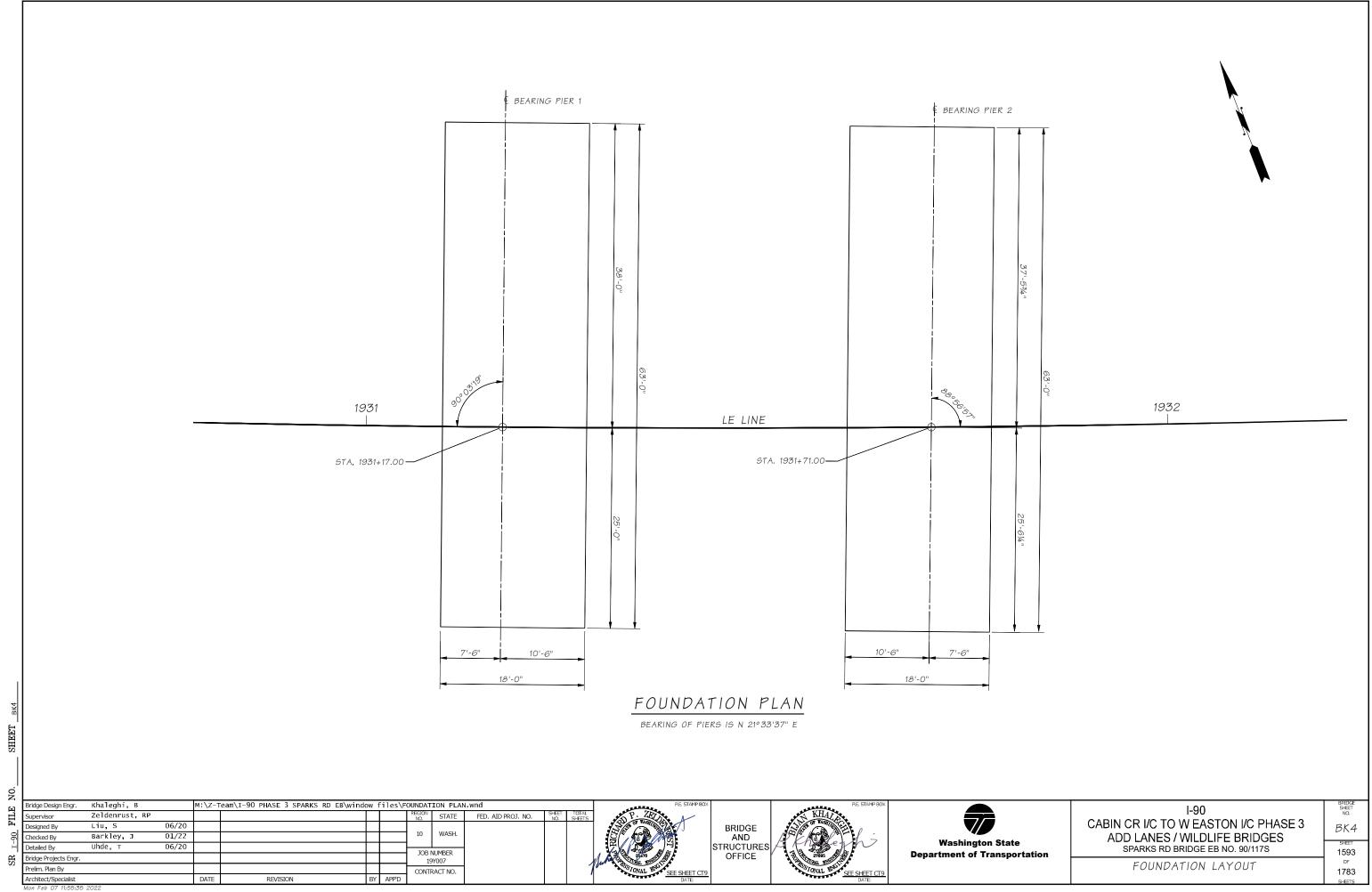
CONSTRUCTION SEQUENCE

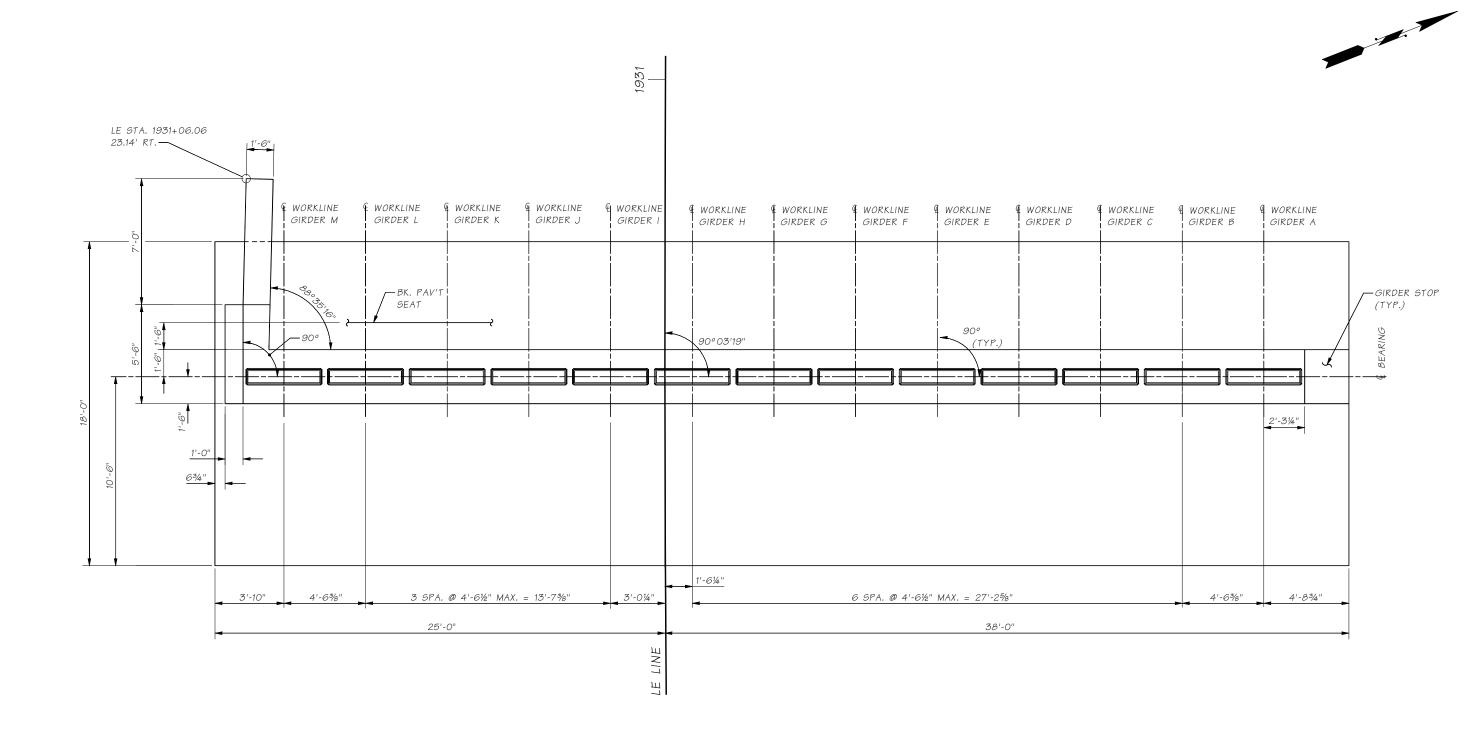
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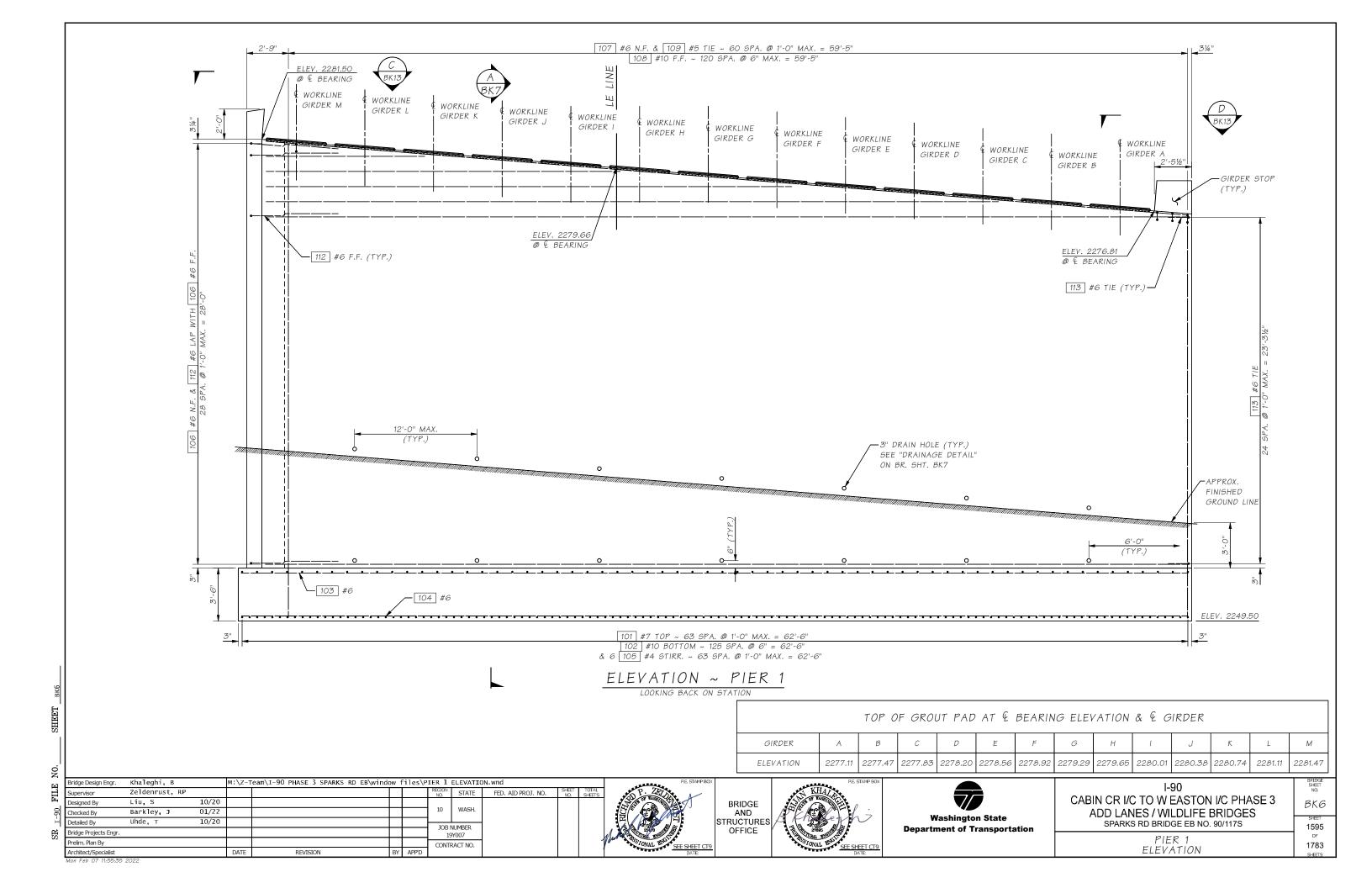
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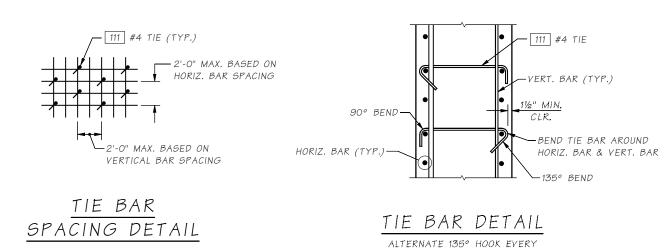


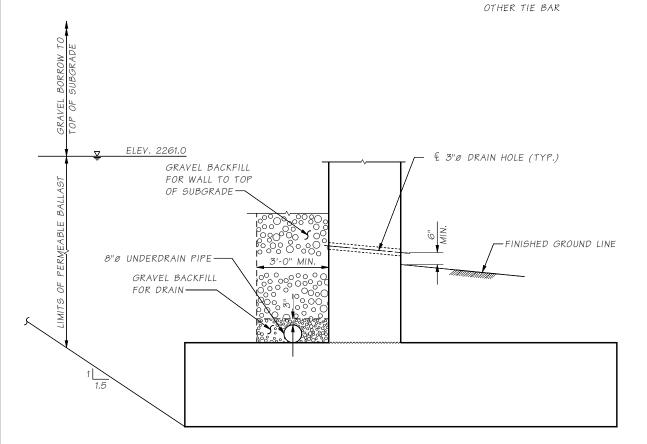


PIER 1 ~ PLAN

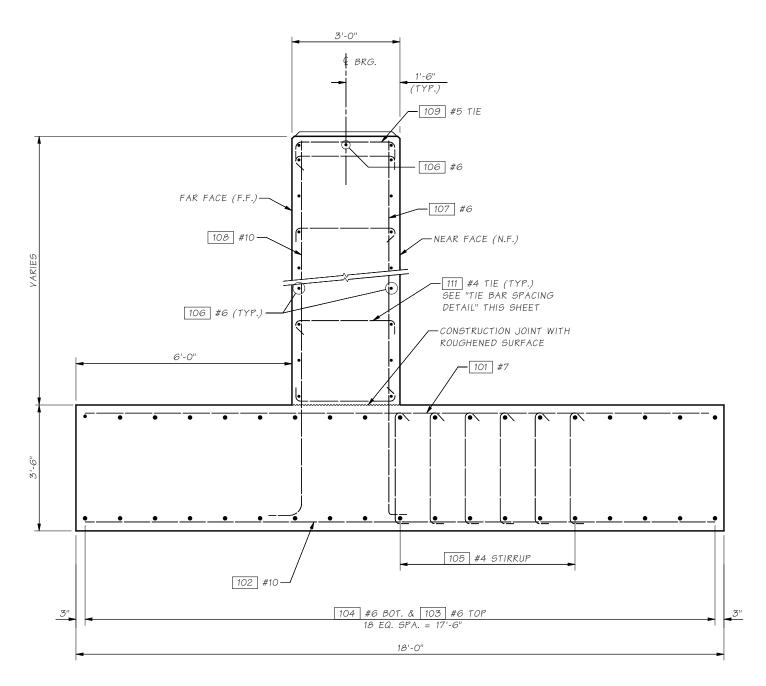
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63	Bridge Design Engr.	Khaleghi, B		M:\Z-Team\	i–90 phase 3 sparks rd e	B\window file	s\PIER 1 PLAN &	ELEVATION.wnd		P.E. ST	MP BOX	P.E. STAMP BOX		1.00	BRIDGE SHEET
∃	Supervisor	Zeldenrust, RP					REGION STATE	FED. AID PROJ. NO.	SHEET TOTAL NO. SHEETS	P. ZELNA A	_	MALON I	5	1-30	NO.
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8	Checked By	Barkley, J	01/22				10 WASH.				AND			ADD LANES / WILDLIFE BRIDGES	5055
⊢⊢	Detailed By	Uhde, ⊤	06/20				JOB NUMBER	4			STRUCTURE	S	Washington State	SPARKS RD BRIDGE EB NO. 90/117S	150/
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I - 90	
CABIN CR I/C TO W EASTON I/C PHASE 3	
ADD LANES / WILDLIFE BRIDGES	
SPARKS RD BRIDGE EB NO. 90/117S	

PIER 1 DETAILS

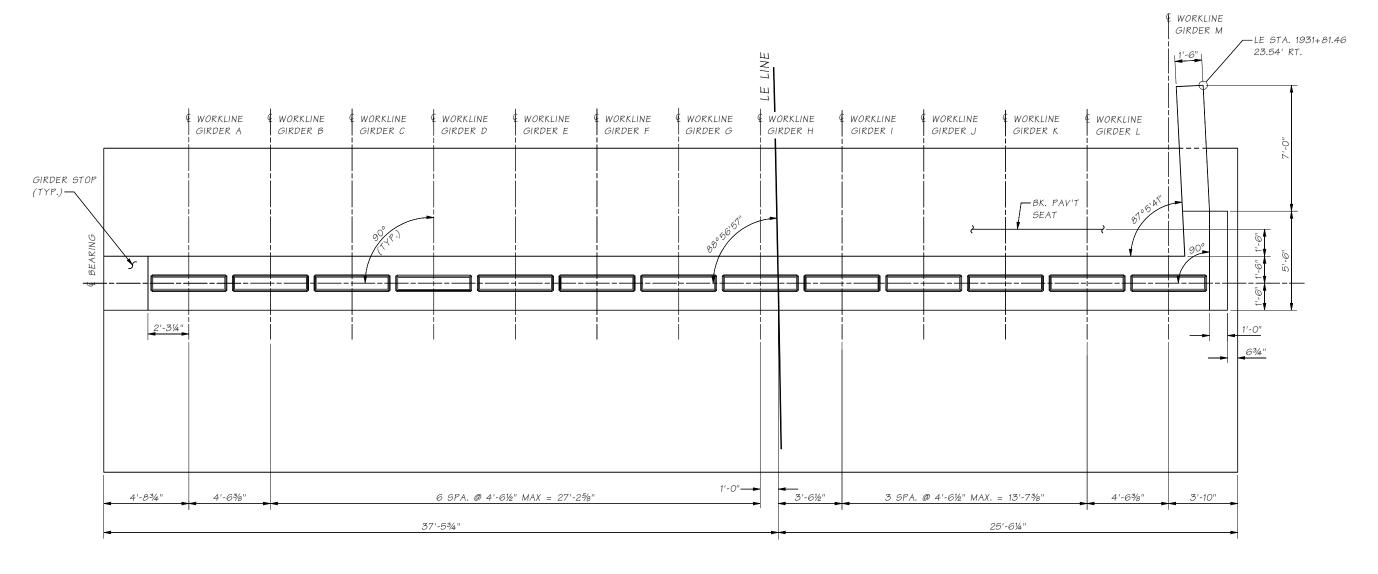
SHEET 1596 OF 1783 SHEETS

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7 I-90 FILE





PIER 2 ~ PLAN

Bridge Design Engr. Khaleghi, B M:\Z-Team\I-90 PHASE 3 SPARKS RD EB\window files\PIER 2 PLAN & ELEVATION.wnd Zeldenrust, RP REGION STATE Supervisor FED. AID PROJ. NO. 06/20 Designed By Liu, S WASH. Barkley, J 01/22 Checked By 06/20 Uhde, ⊤ Detailed By JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. Architect/Specialist
Mon Feb 07 11:55:36 DATE REVISION



BRIDGE AND STRUCTURES OFFICE



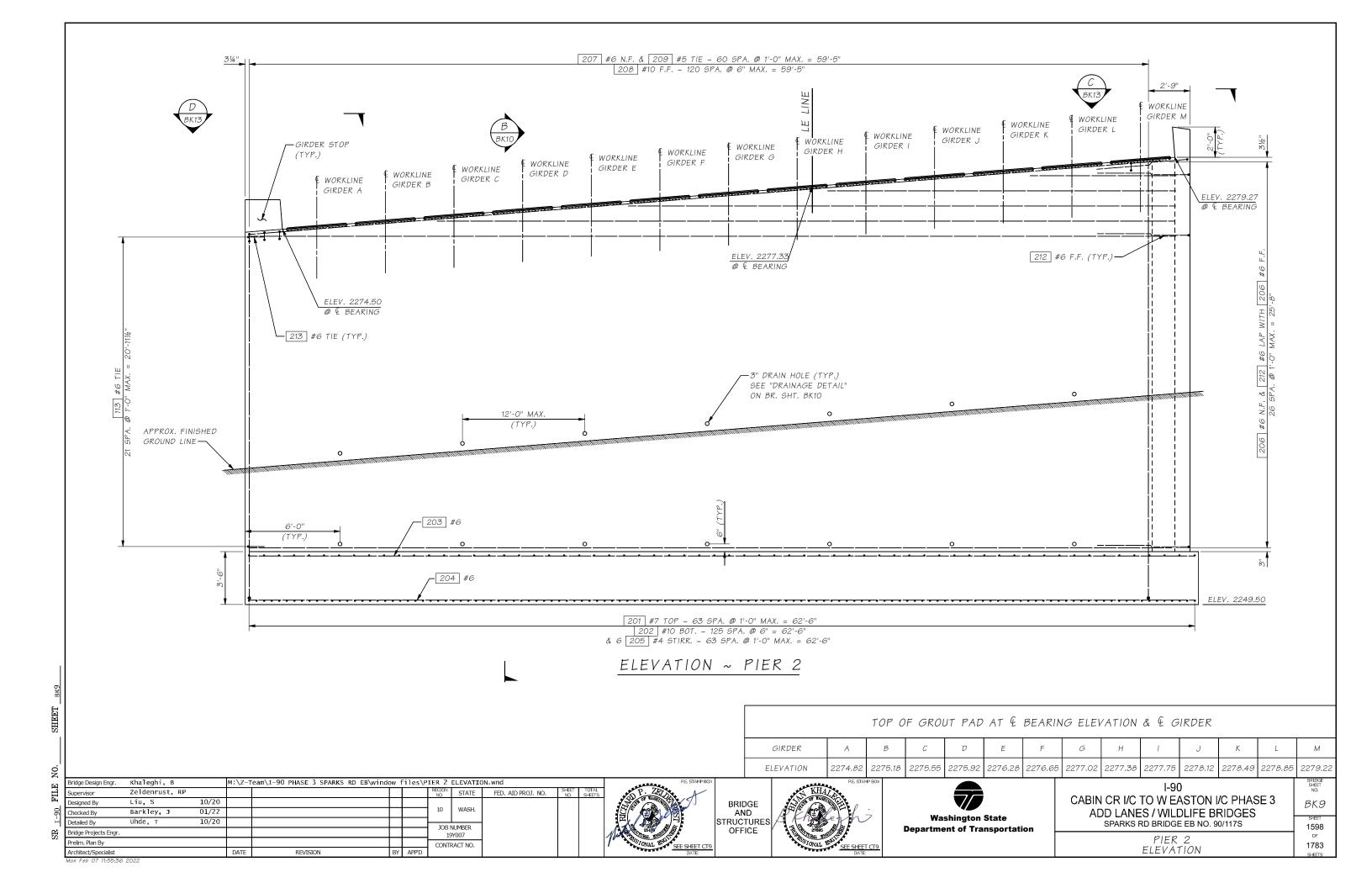
I-90 CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S
PIER 2 PLAN

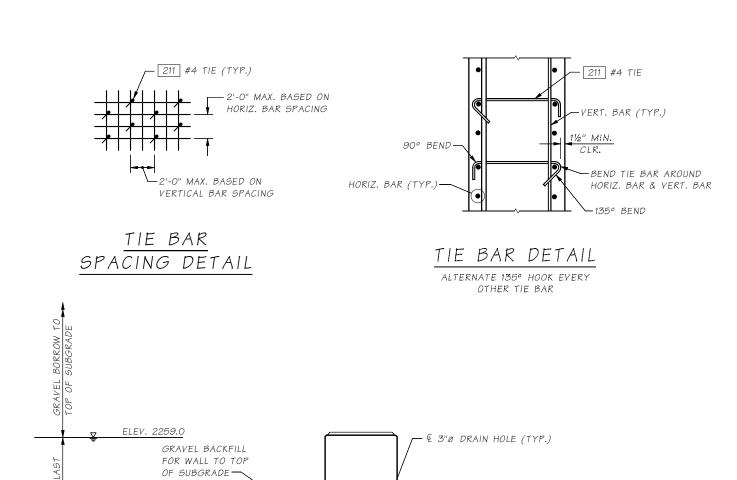
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1597 OF

1783

SR 1-90 FILE NO.





₿ BRG. (TYP.) - 209 #5 TIE 206 #6 FAR FACE (F.F.) - 207 #6 208 #10-NEAR FACE (N.F.) - 211 #4 TIE (TYP.) SEE "TIE BAR SPACING DETAIL" THIS SHEET 206 #6 (TYP.)— -CONSTRUCTION JOINT WITH ROUGHENED SURFACE 6'-0" 201 #6 205 #4 STIRRUP 202 #10 -204 #6 BOT. & 203 #6 TOP 18 EQ. SPA. = 17'-6" 18'-0"

3'-0"

SECTION B

DRAINAGE DETAIL

Z,													
÷1	Bridge Design Engr.	Khaleghi, B		M:\Z-T	ream\I-90 PHASE 3 SPARKS RD EB\wind	low 1	files\P	IER 2	DETAILS.	wnd			
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8"Ø UNDERDRAIN PIPE-

GRAVEL BACKFILL FOR DRAIN



-FINISHED GROUND LINE

BRIDGE AND STRUCTURES OFFICE

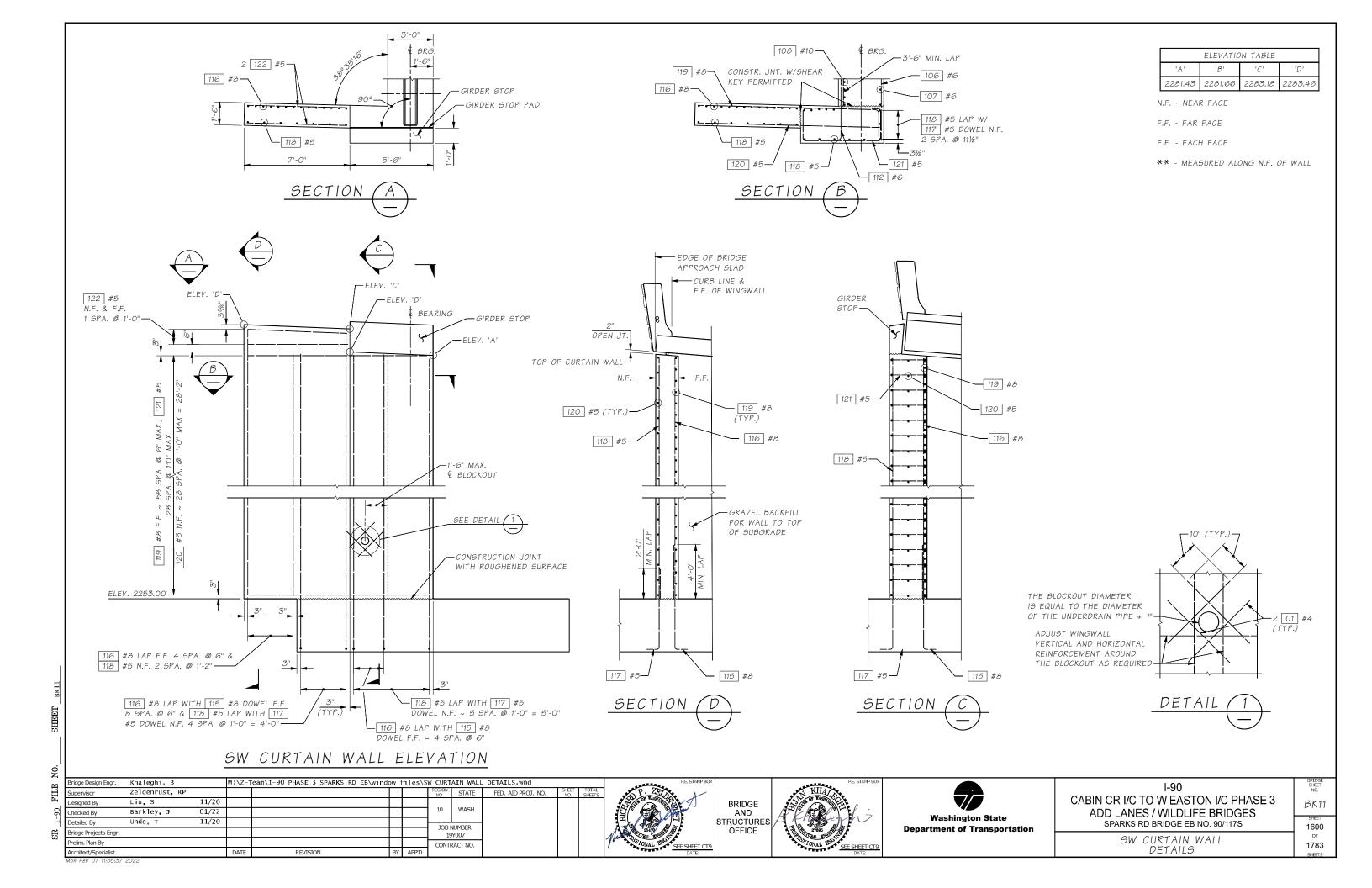


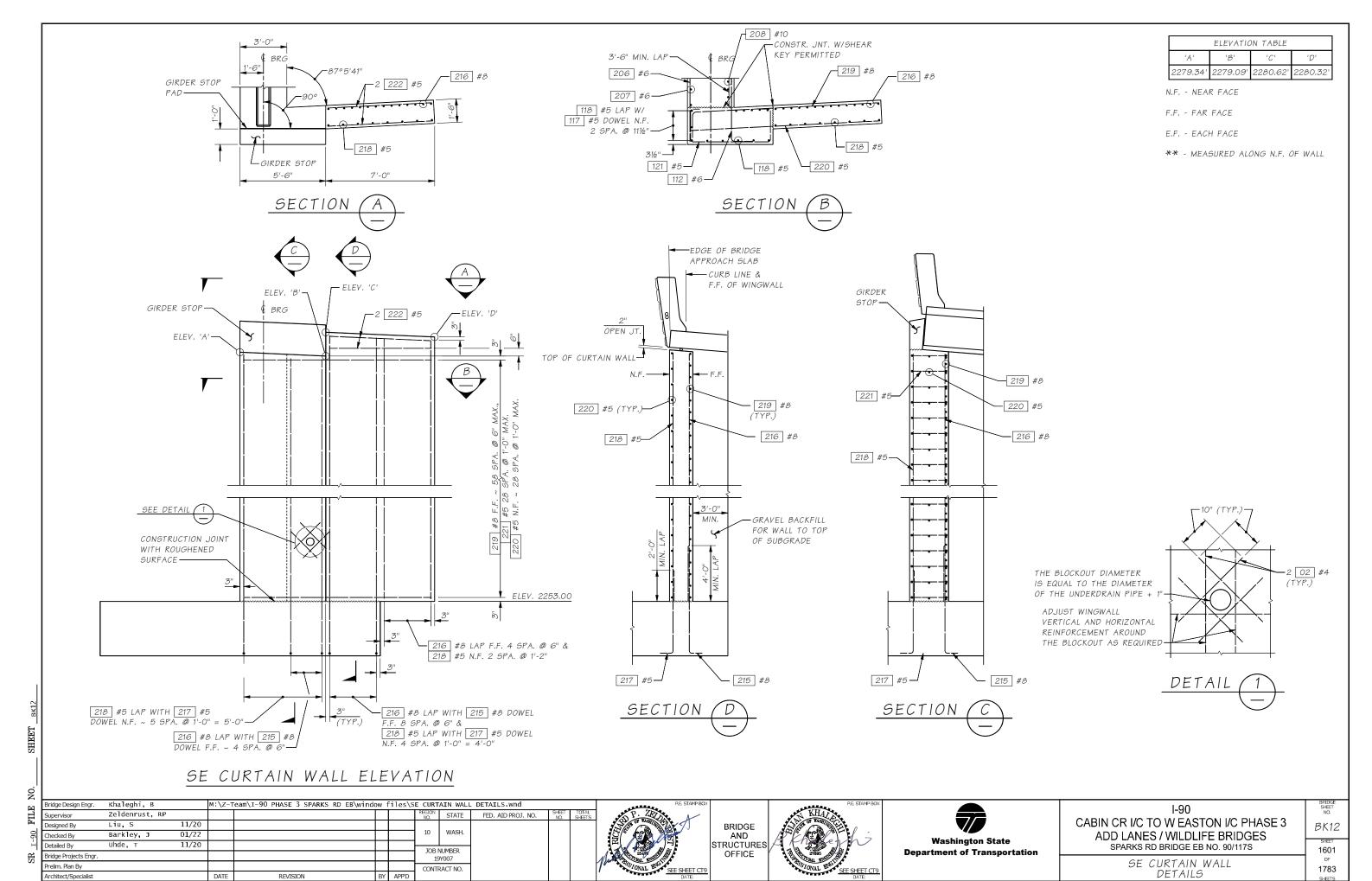
I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S
PIER 2 DETAILS

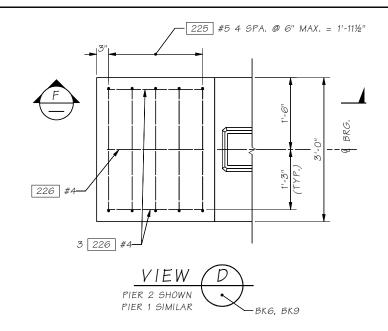
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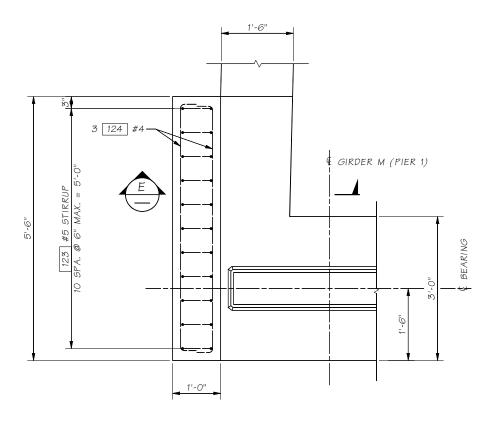
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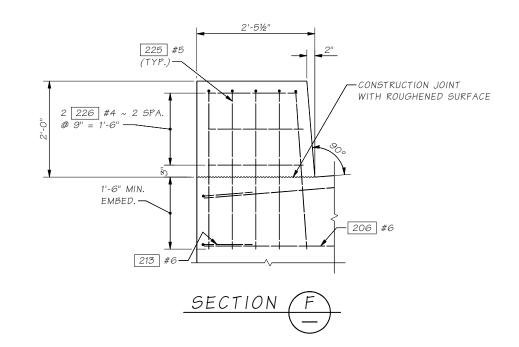


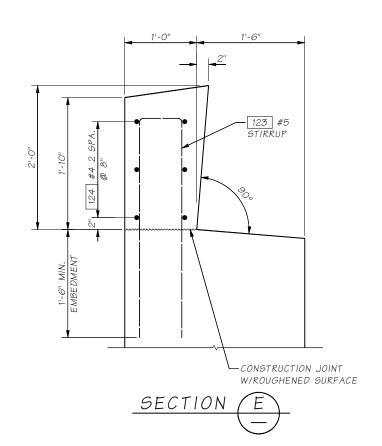












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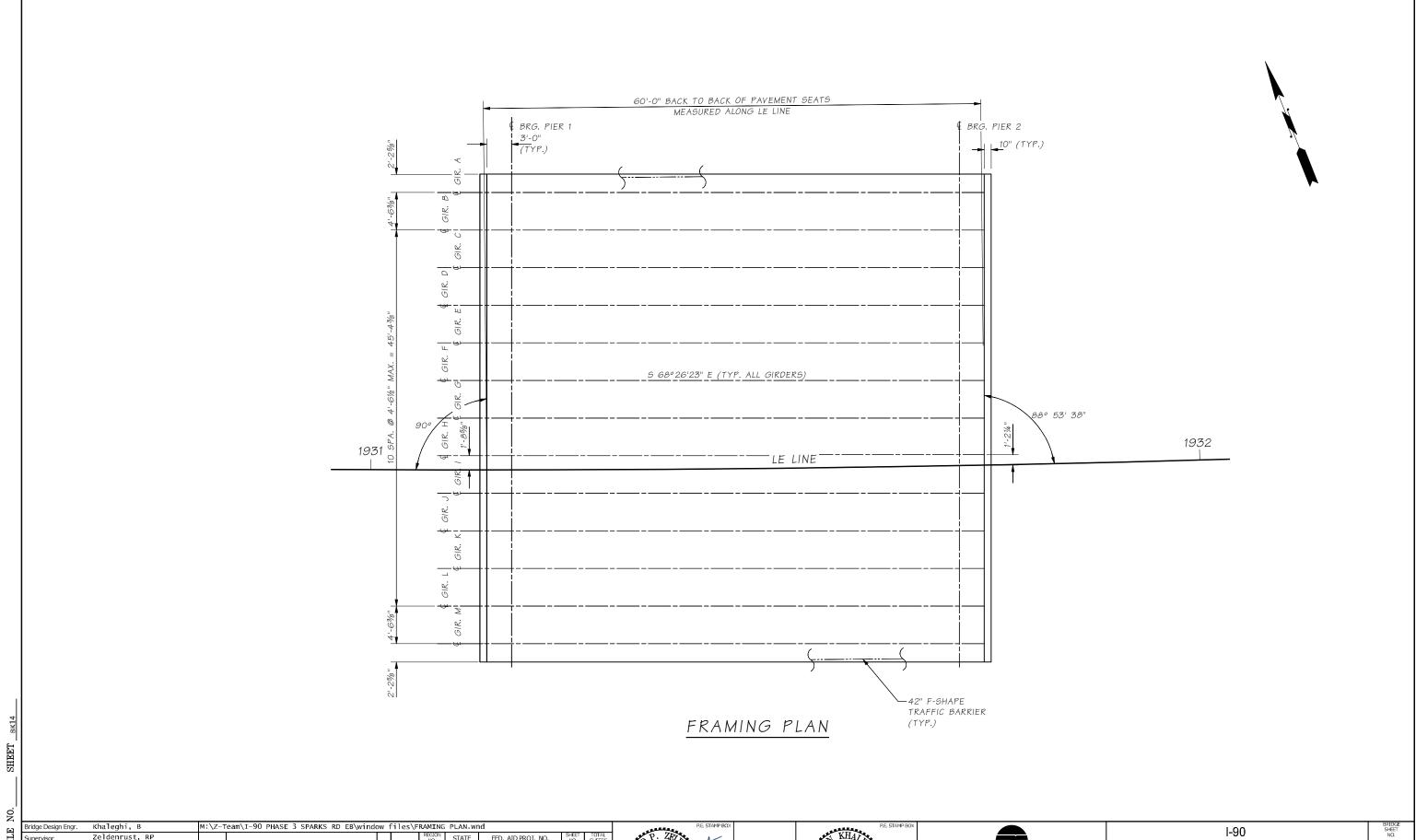






I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

BK13 1602 OF 1783



REGION STATE FED. AID PROJ. NO. SHEET TOTAL NO. SHEETS Zeldenrust, RP 06/20 Designed By WASH. Barkley, J 01/22 Checked By 06/20 Uhde, ⊤ Detailed By JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. REVISION DATE



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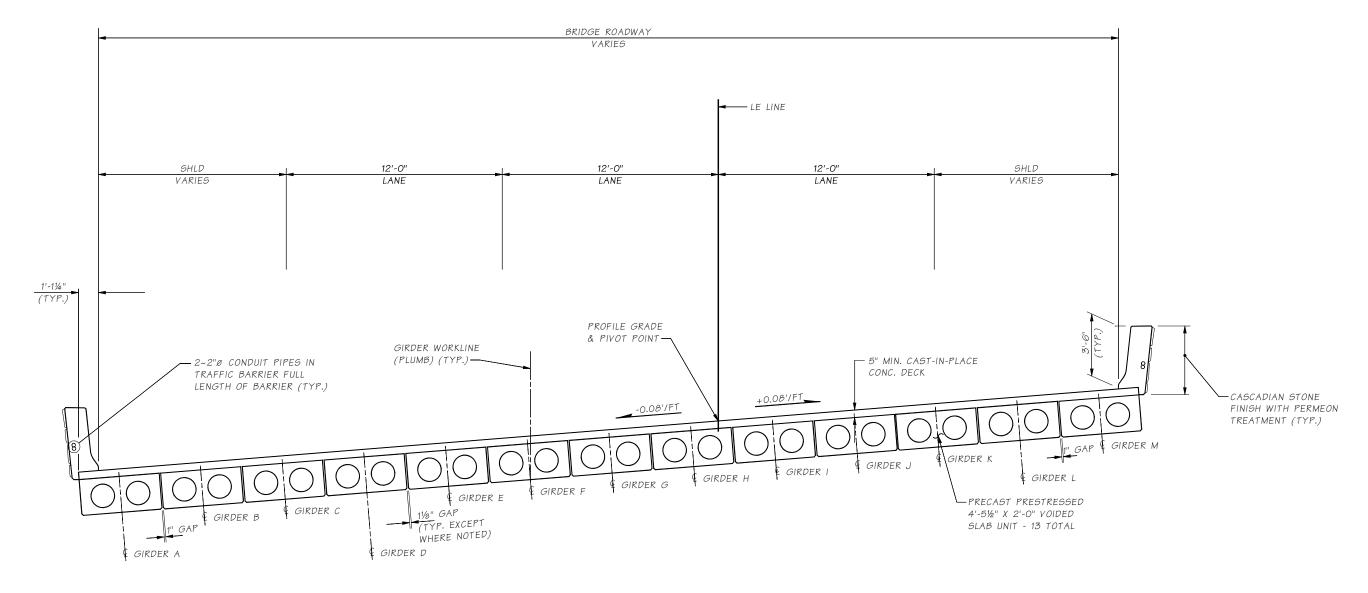
CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE EB NO. 90/117S FRAMING PLAN

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Architect/Specialist

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TYPICAL SECTION

SHOWN NEAR MID SPAN

ź													
a	Bridge Design Engr.	Khaleghi, B		M:\Z−T	Team\I-90 PHASE 3 SPARKS RD EB\wind	l wob	files\T	YPICAL	SECTION	I.wnd			
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BRIDGE AND STRUCTURES OFFICE



I - 90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S
TYPICAL SECTION

BK15 1604 OF 1783

															G	IRDE	ΞR	50	CHE	DUL	E														
			GIRDER WIDTH	PLAN LENGTH	VOIDS	I	BIRDER DETAILS	MIN.	. CONC. STRENGT		PRESTRES ROW		RANDS	(SEE GIRD ROW 2		5 2-4) TOP RO)W	-		MIDSP. VERTIC	CAL			TRANS REINFOR		Т		LONGIT REINFOR	UDINAL CEMENT		SHIP	PING A	ND HAI	NDLING DETAILS	;
SPAN	GIRDER	Н	W	(ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	NUMBER DIAMETER	END 1 TYPE END 2 TYPE	Θ1 Θ2	@ 28-DAYS F'C (KSI)	@ RELEASE F'CI (KSI)	PERMANENT STRANDS	EXTENDED NUMBER AND LENGTH	DEBONDED NUMBER AND LENGTH	PERMANENT STRANDS	EXTENDED NUMBER AND LENGTH	DEBONDED NUMBER AND LENGTH	PERMANENT STRANDS TEMPORARY	STRANDS	"A" DIMENSION A & BEARINGS	DECK SCREED CAMBER C	WER 40	MPPER BOUND @ 120 DAYS	BAR SIZE	LE 1	BAR SIZE	E 2 HLONGTH	BAR SIZE SPACING BY	LENOTH	NO. OF BARS	BAR SIZE NO. OF BARS	MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L1	L2	K _O MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	W _{CC} MINIMUM SHIPPING SUPPORT CNTRTO-CNTR. WHEEL SPACING
1	А-М	2'-0"	4'-51/2"	57'-9%"	2 1'-3¾"	A A	90.55 90.5	55 10.0	7.5	19	4 @ 1'-4"	3 @ 3'-0'	" 3	-	-	2	4	6"	1/4"	1/2"	11/8"	#5 3	1'-0'	#5 5	10'-0	" #5 9" <	5 #	4 5	#4 5	1"	3'-0"	2'-0"	2'-0"	40,000.00	6'-0"

GIRDER NOTES

- PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- 2. ALL STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND). STRANDS SHALL BE SYMMETRICAL ABOUT THE GIRDER CENTERLINE. EXTERIOR STRANDS IN EACH ROW SHALL BE FULLY BONDED.
- 3. SPACE EXTENDED STRANDS SYMMETRICALLY AND EVENLY ACROSS GIRDER WIDTH. STAGGER EXTENDED STRAND LOCATIONS WITH RESPECT TO GIRDERS IN ADJACENT SPANS.
- 4. DEBONDED STRANDS SHALL BE DEBONDED AT EACH GIRDER END FOR THE INDICATED LENGTH PARALLEL TO THE GIRDER CENTERLINE. DEBONDED STRANDS SHALL NOT BE EXTENDED PAST GIRDER ENDS. DEBONDED STRANDS SHALL BE SYMMETRICALLY PLACED ABOUT THE GIRDER CENTERLINE. DEBONDED LENGTHS OF PAIRS OF STRANDS THAT ARE SYMMETRICALLY POSITIONED ABOUT THE GIRDER CENTERLINE SHALL BE EQUAL.
- 5 = TO MIDSPAN.

8													
	Bridge Design Engr.	Khaleghi, B		M:\Z−T	eam\I-90 PHASE 3 SPARKS RD EB\wind	ow f	iles\S		RDER DET	AIL 1.wnd			
FILE	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1
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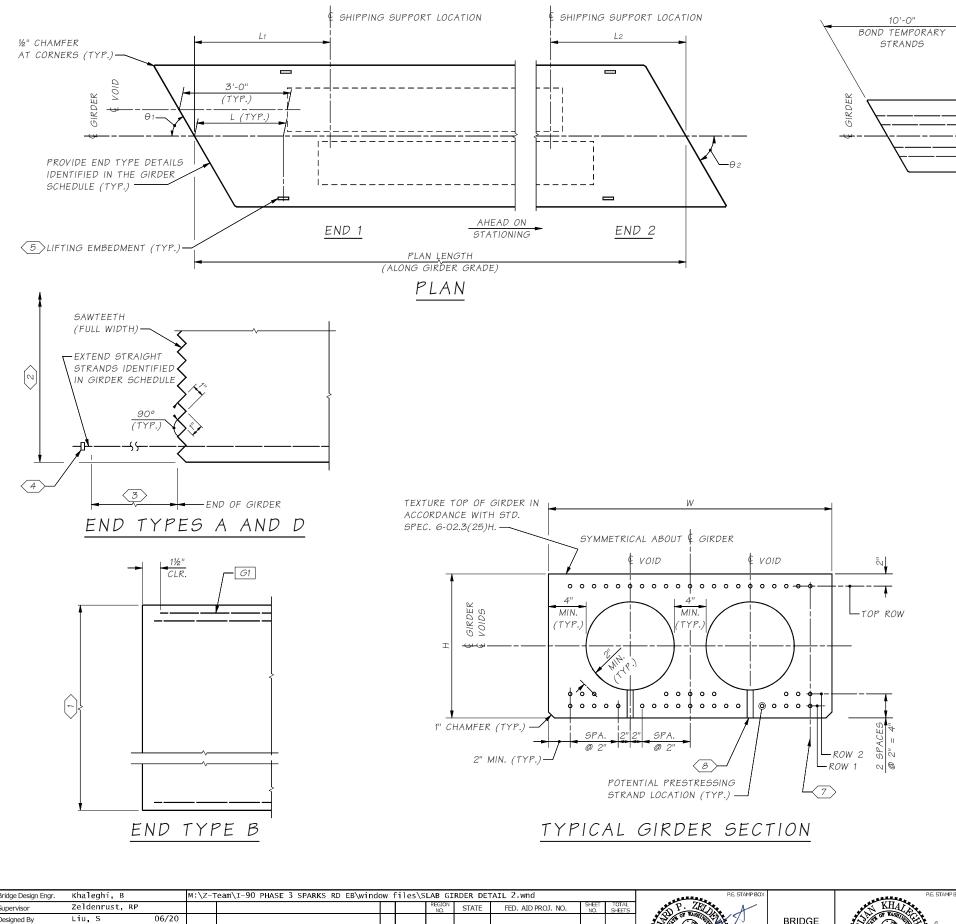


I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

SLAB GIRDER DETAIL 1 SHEET NO.

1605 of 1783

SR I-90 FILE NO.



BOND TEMPORARY
STRANDS

2'-0" MIN. OFFSET BETWEEN
SYMMETRICAL BLOCKOUT PAIRS (TYP.)

TEMPORARY STRANDS

PROVIDE 4" MIN. TO
ADJACENT PERMANENT
STRANDS (TYP.)

<u>PLAN</u> TEMPORARY STRANDS

GENERAL NOTES:

- 1. SEE GIRDER SCHEDULE FOR REQUIRED NUMBER OF TEMPORARY STRANDS. TEMPORARY STRANDS SHALL BE PLACED IN THE TOP ROW.
- 2. FOR GIRDERS ERECTED ON A LONGITUDINAL GRADE, STRAND DETENSIONING BLOCKOUTS SHALL BE PLACED AT THE LOW END OF THE GIRDER.
- 3. SEE "TEMPORARY STRAND CUTTING SEQUENCE" ON CONSTRUCTION SEQUENCE SHEET FOR TEMPORARY STRAND DETENSIONING PROCEDURE.

NOTES: (99) = SEE NOTE

- CUT ALL STRANDS FLUSH WITH THE GIRDER END AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN.
- 2) CUT ALL STRANDS 1" BELOW CONCRETE SURFACE AND GROUT WITH AN APPROVED EPOXY
- (3) EXTENSION LENGTH PARALLEL TO € GIRDER. 1'-4" FOR END TYPE A. LENGTH AS IDENTIFIED IN THE GIRDER SCHEDULE FOR END TYPE D.
- 4) 11%6"Ø MIN. STRAND CHUCK OR ASTM A108 234"Ø x 11%6" STRAND ANCHOR. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
- (5) INSTALL LIFTING EMBEDMENTS IN ACCORDANCE WITH STD. SPEC. 6-02.3(25)L. REMOVE TO TOP OF GIRDER AFTER ERECTION.
- 6 2½" x 6" x 2½" DEEP BLOCKOUT FOR STRAND DETENSIONING. FORM WITH EXPANDED POLYSTYRENE. REMOVE POLYSTYRENE JUST PRIOR TO CUTTING THE TEMPORARY STRANDS AND PREVENT MOISTURE FROM ENTERING THE BLOCKOUT AS DESCRIBED IN THE TEMPORARY STRAND CUTTING SEQUENCE.
- 7 EXTERIOR STRAND POSITIONS IN EACH ROW SHALL BE FILLED FIRST AND SHALL BE PERMANENT AND FULLY BONDED.
- $\begin{tabular}{ll} \&\end{tabular}$ 1"ø polyethylene pipe drain at both ends of each void. Ensure water within void will drain after casting girder.

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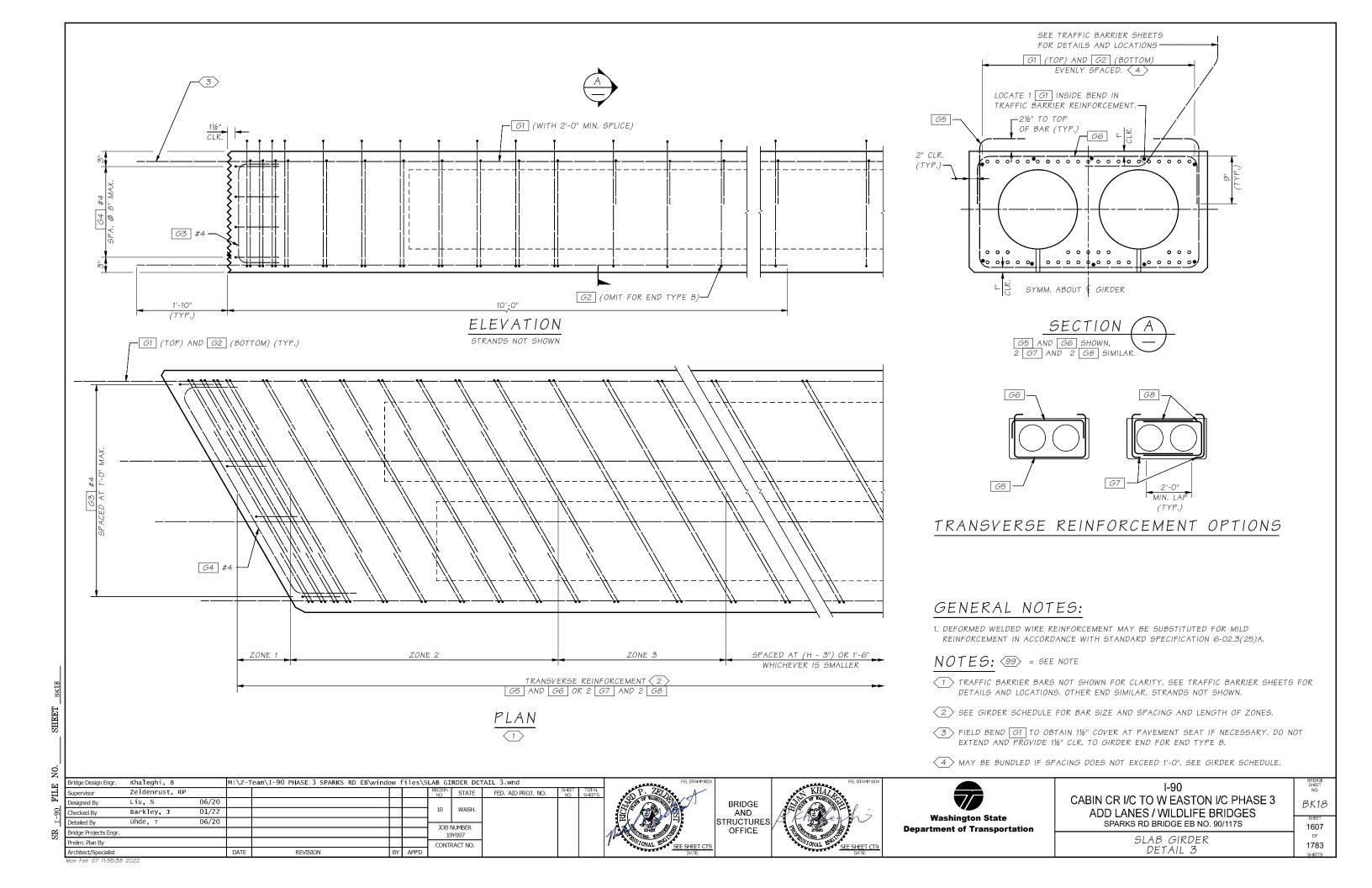


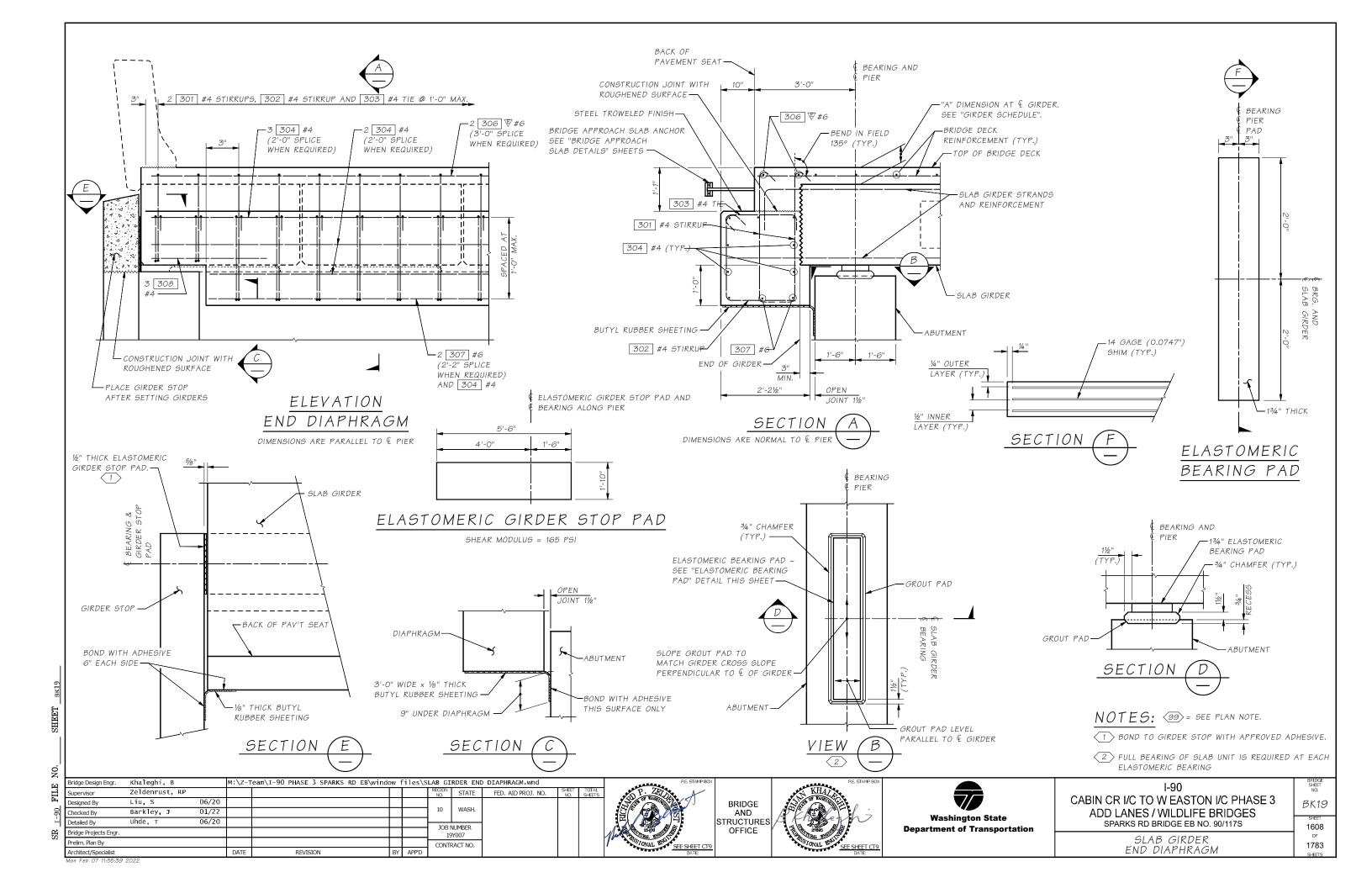


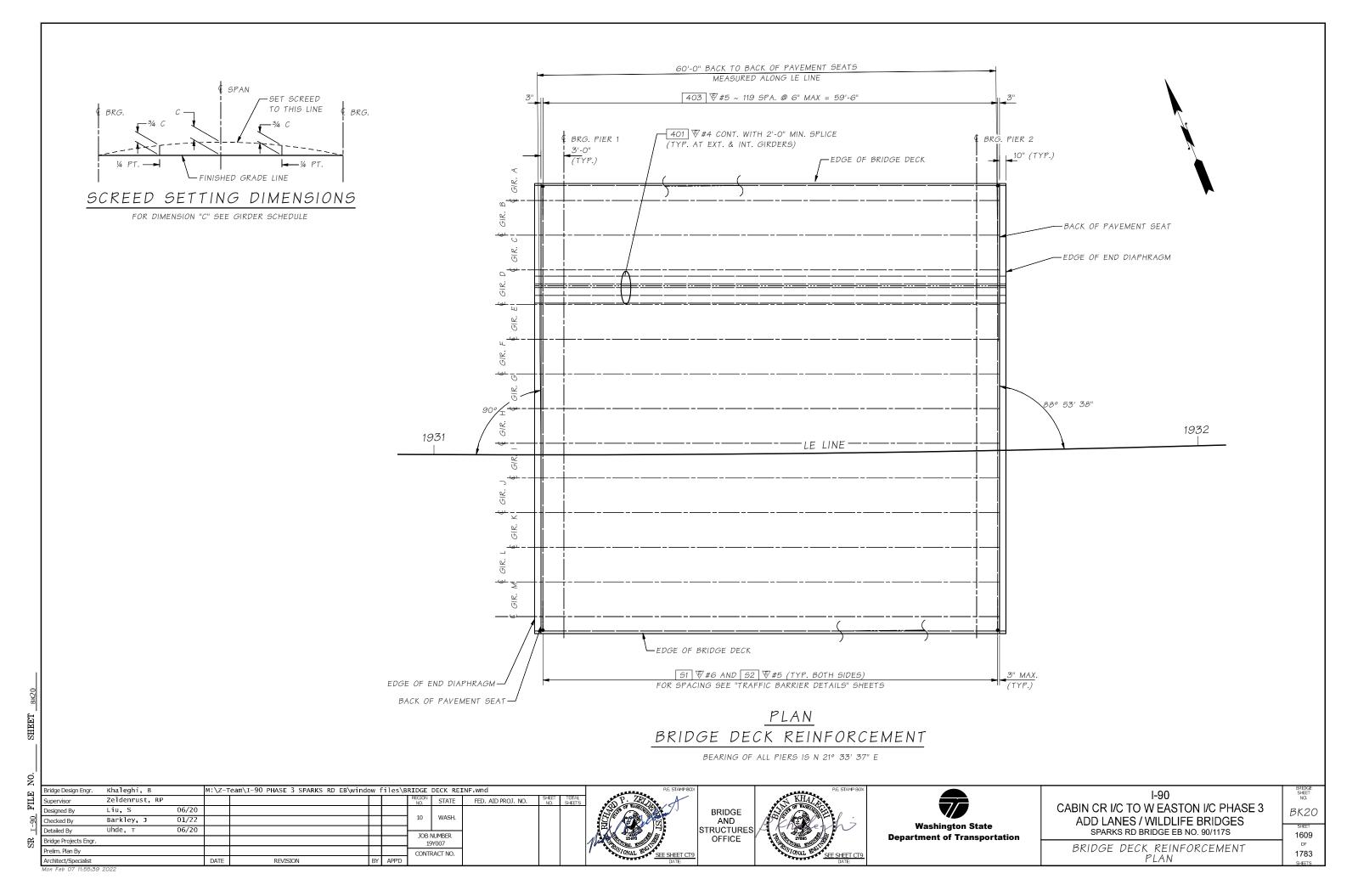
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CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

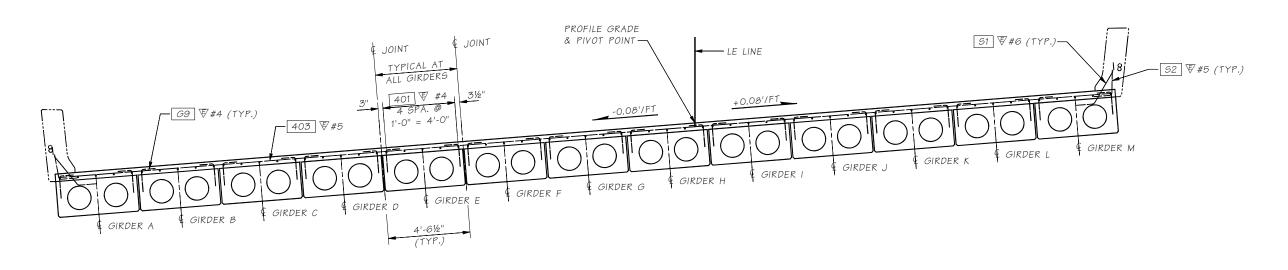
SLAB GIRDER DETAIL 2 SHEET 1606 OF 1783

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SECTION BRIDGE DECK REINFORCEMENT

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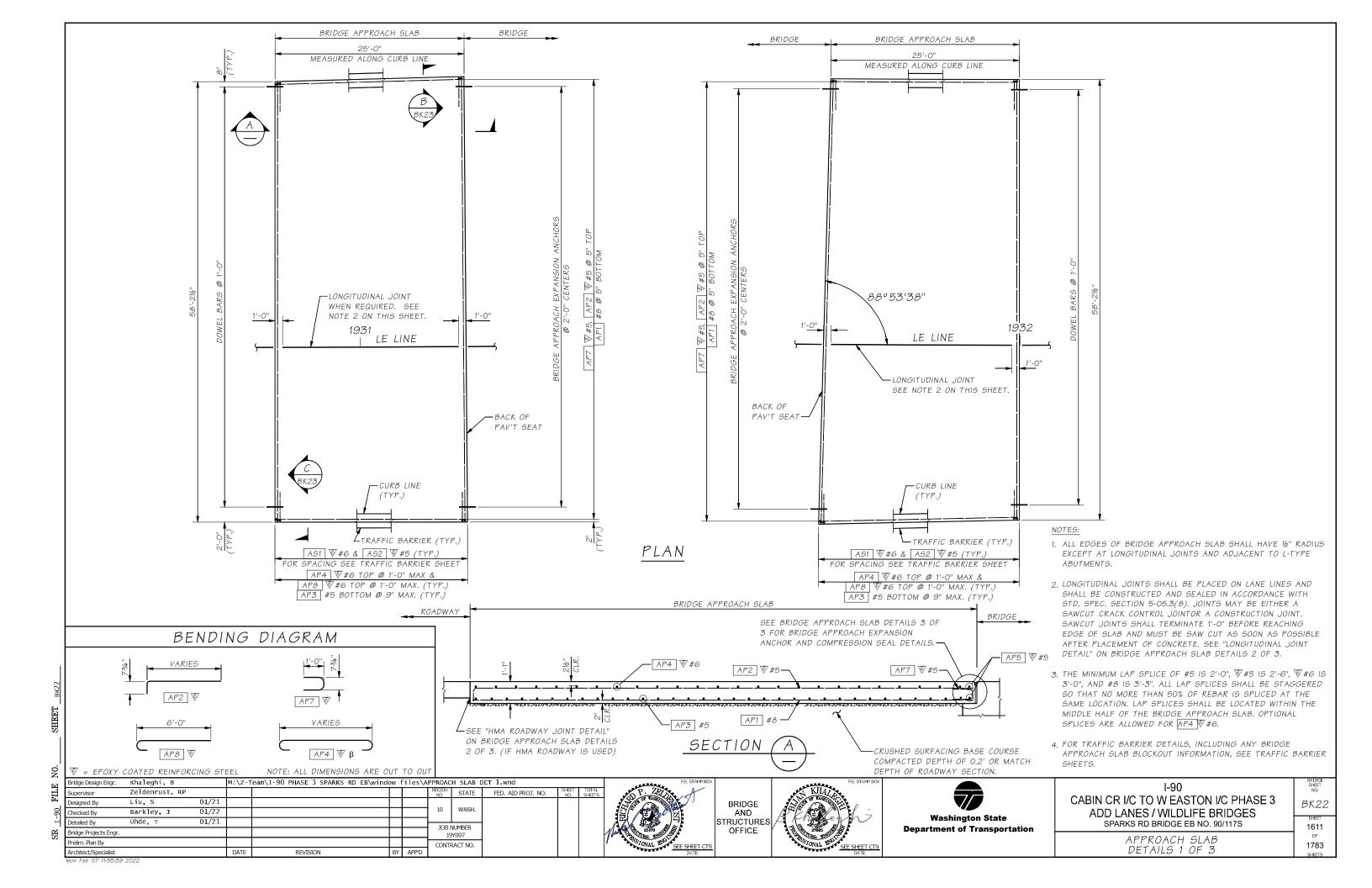
BRIDGE AND STRUCTURES OFFICE

Washington State
Department of Transportation

I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

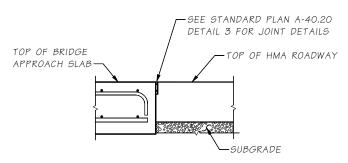
BRIDGE DECK REINFORCEMENT SECTION SHEET 1610 OF 1783 SHEETS

SR 1-90 FILE NO.

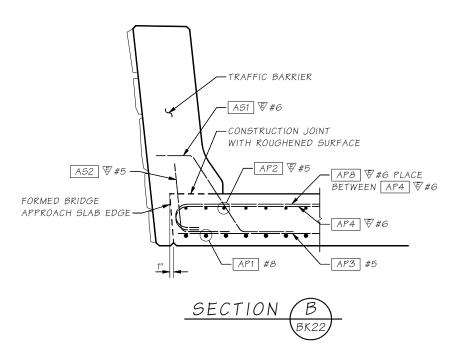


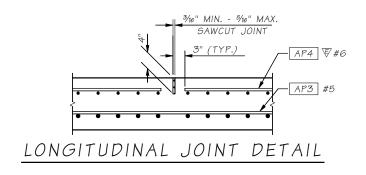
PCCP ROADWAY DOWEL BAR DETAIL PCCP ROADWAY DOWELS SHALL BE INSTALLED

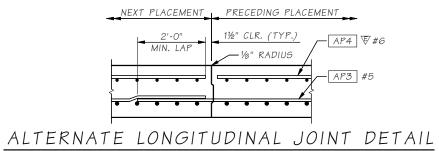
PARALLEL TO ROADWAY AND TO EACH OTHER.



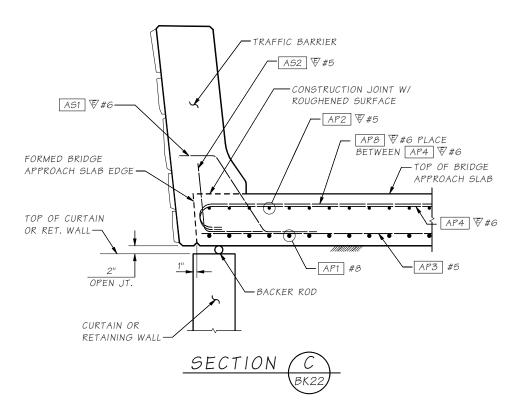
HMA ROADWAY JOINT DETAIL







EDGE PRECEDING PLACEMENT ONLY WITH 1/8" RADIUS.



Bridge Design Engr.	Khaleghi, B		$M: \Z-T$	ream\I-90 PHASE 3 SPARKS RD EB\win	dow 1	files\A	PPROAC	H SLAB D	DET 2.wnd			Γ
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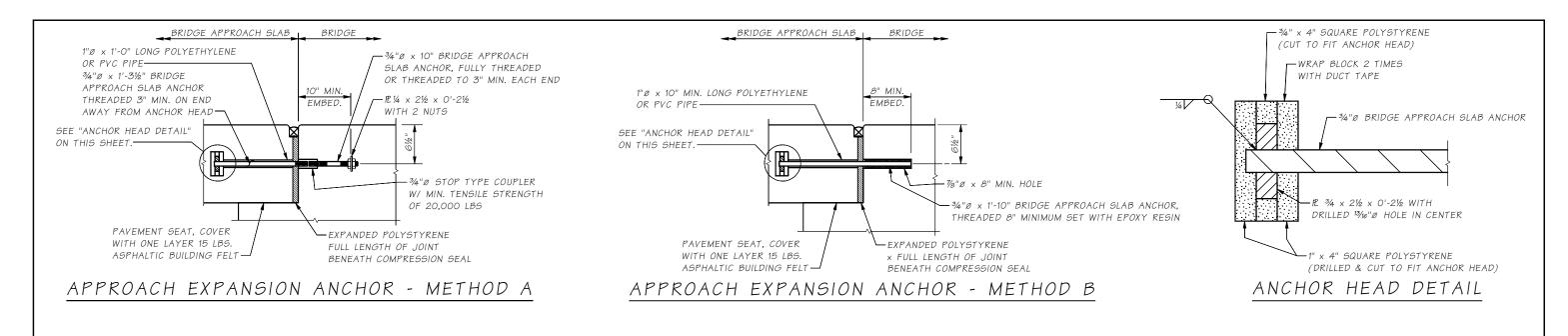
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ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

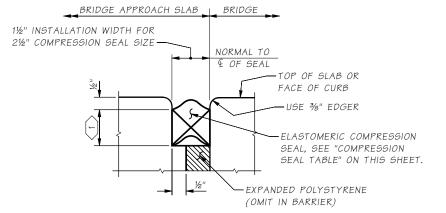
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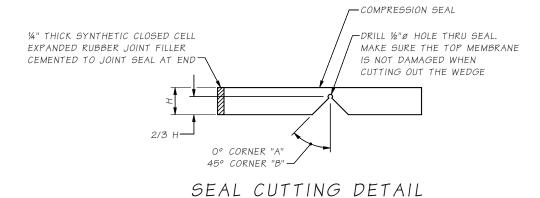
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APPROACH SLAB DETAILS 2 OF 3







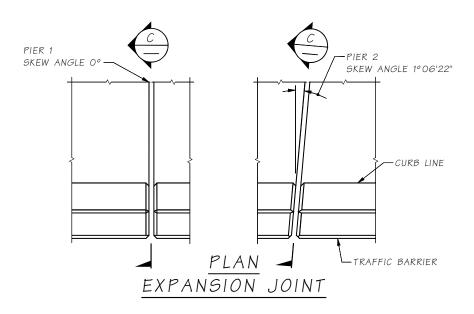
COMPRESSION SEAL TABLE

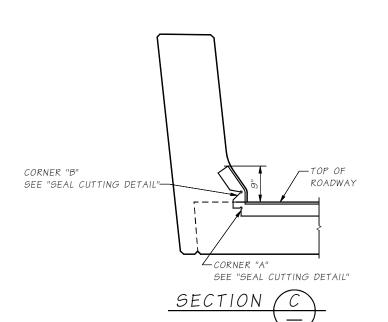
D.S. BR	COWN	WATSON BOWMAN ACME							
SEAL	WIDTH	SEAL	WIDTH						
CV-2502	2½	WA-250	2½						

TESTING SHALL BE PER ASTM D 2628 PRIOR TO USE.

COMPRESSION SEAL DETAIL

EXPANSION JOINT AT BACK OF PAVEMENT SEAT





GENERAL NOTES:

- 1. ALL METAL PARTS OF THE APPROACH EXPANSION ANCHOR SHALL RECEIVE ONE COAT OF PAINT CONFORMING TO STANDARD SPECIFICATION SECTION 9-08.1(2)F OR BE GALVANIZED IN ACCORDANCE WITH AASHTO M
- BRIDGE APPROACH SLAB ANCHORS SHALL BE INSTALLED PARALLEL TO ROADWAY AND TO EACH OTHER.

NOTES:

1 FULLY COMPRESSED SEAL HEIGHT, SEAL HEIGHT VARIES WITH MANUFACTURER, VERIFY PRIOR TO SLAB CONSTRUCTION

	Bridge Design Engr.	Khaleghi, B		M:\Z−T	Team\I-90 PHASE 3 SPARKS RD EB\win	dow 1	files\A	PPROAC	H SLAB D	ET 3.wnd		\neg	Γ
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BRIDGE AND TRUCTURES OFFICE





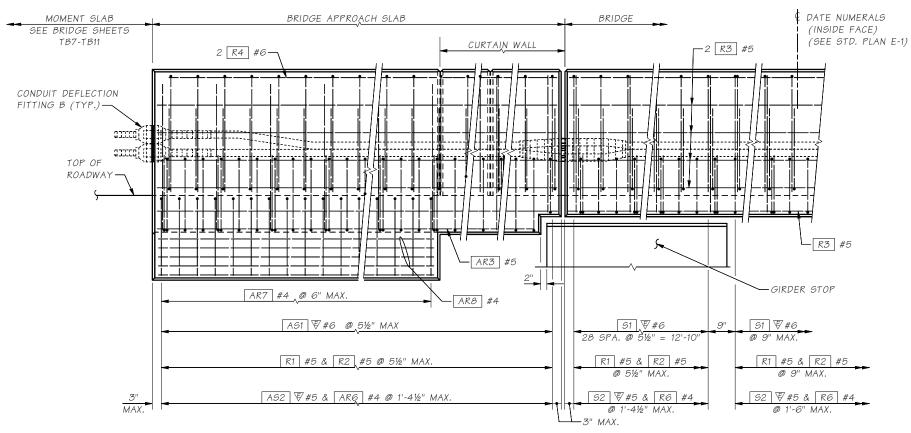
1-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE EB NO. 90/117S

> APPROACH SLAB DETAILS 3 OF 3

1613 1783

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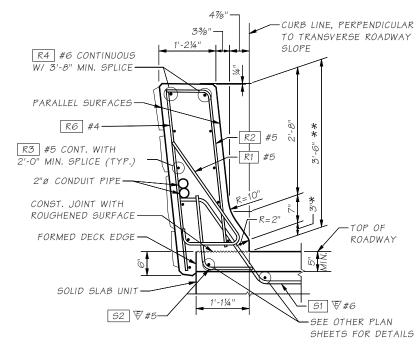
BARRIER CONTINUOUS BETWEEN ROADWAY EXPANSION JOINTS. CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS. FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.



OUTSIDE ELEVATION

END OF TRAFFIC BARRIER
SHOWN WITH BRIDGE APPROACH SLAB

- * TOE HEIGHT MAY VARY, 2" MIN TO 6" MAX.
- ** HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE.



TYPICAL SECTION TRAFFIC BARRIER

SHOWN ON BRIDGE

2													
	Bridge Design Engr.	Khaleghi, B		M:\Z−T	ream\I-90 PHASE 3 SPARKS RD EB\wi	ndow :	files\T	RAFFIC	BARRIER	R DET 1.wnd			
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BRIDGE AND STRUCTURES OFFICE



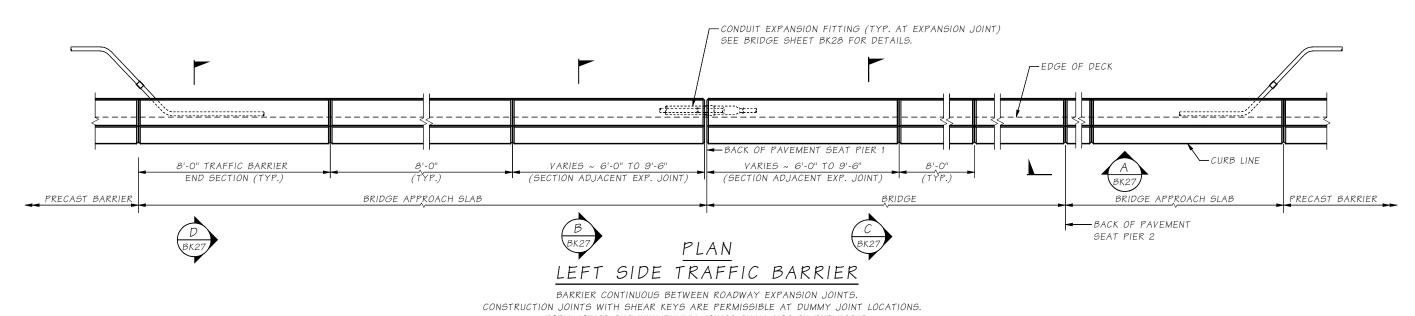
I-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE EB NO. 90/117S

TRAFFIC BARRIER - SHAPE F 42 IN.
DETAILS 1 OF 4

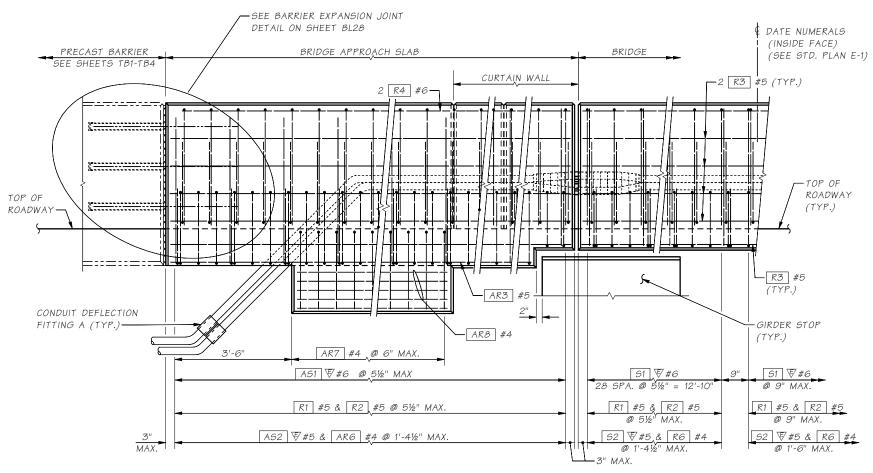
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FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.



OUTSIDE ELEVATION LEFT SIDE TRAFFIC BARRIER

SHOWN WITH BRIDGE APPROACH SLAB

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G-21	Bridge Design Engr.	Khaleghi, B		M:\Z−T	eam\I-90 PHASE 3 SPARKS RD EB\wind	ow f	iles\T	RAFFIC	BARRIER	R DET 4.wnd			
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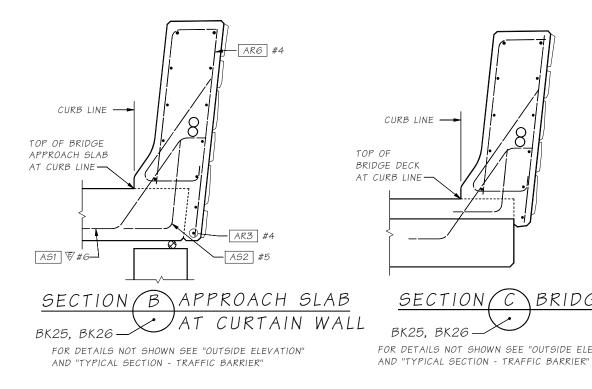
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CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S
TRAFFIC BARRIER

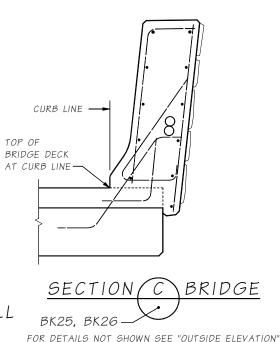
DETAILS 2 OF 4

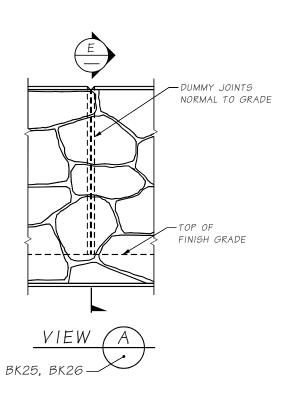
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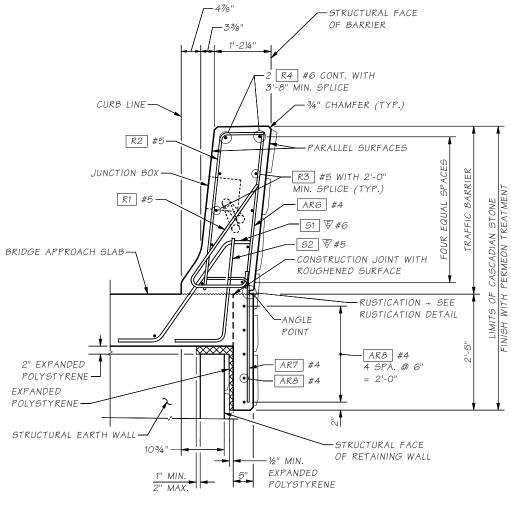
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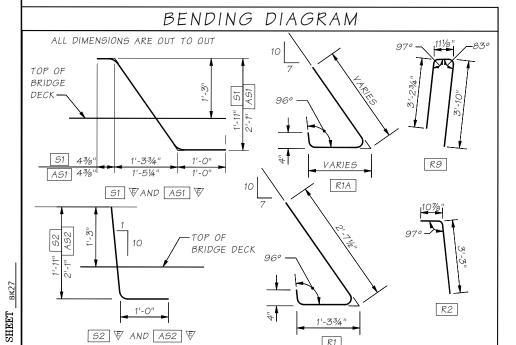
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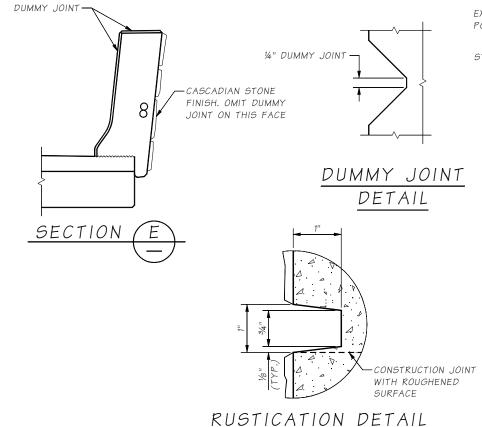












APPROACH SLAB

NOTES:

1 BLOCKOUT WIDTH MAY BE INCREASED TO 6" TO ALLOW CONDUITS OF A LARGER DIAMETER THAN 2" TO EXIT BARRIER OR WALL WITHOUT REBAR STEEL CONFLICT.

	Bridge Design Engr.	Khaleghi, B		M:\Z−T	eam\I-90 PHASE 3 SPARKS	RD EB\windo	ow f	iles\T	RAFFIC	BARRIEF	R DET 2.wnd		
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	Architect/Specialist			DATE	REVISION		BY	APP'D					

BRIDGE AND STRUCTURES OFFICE





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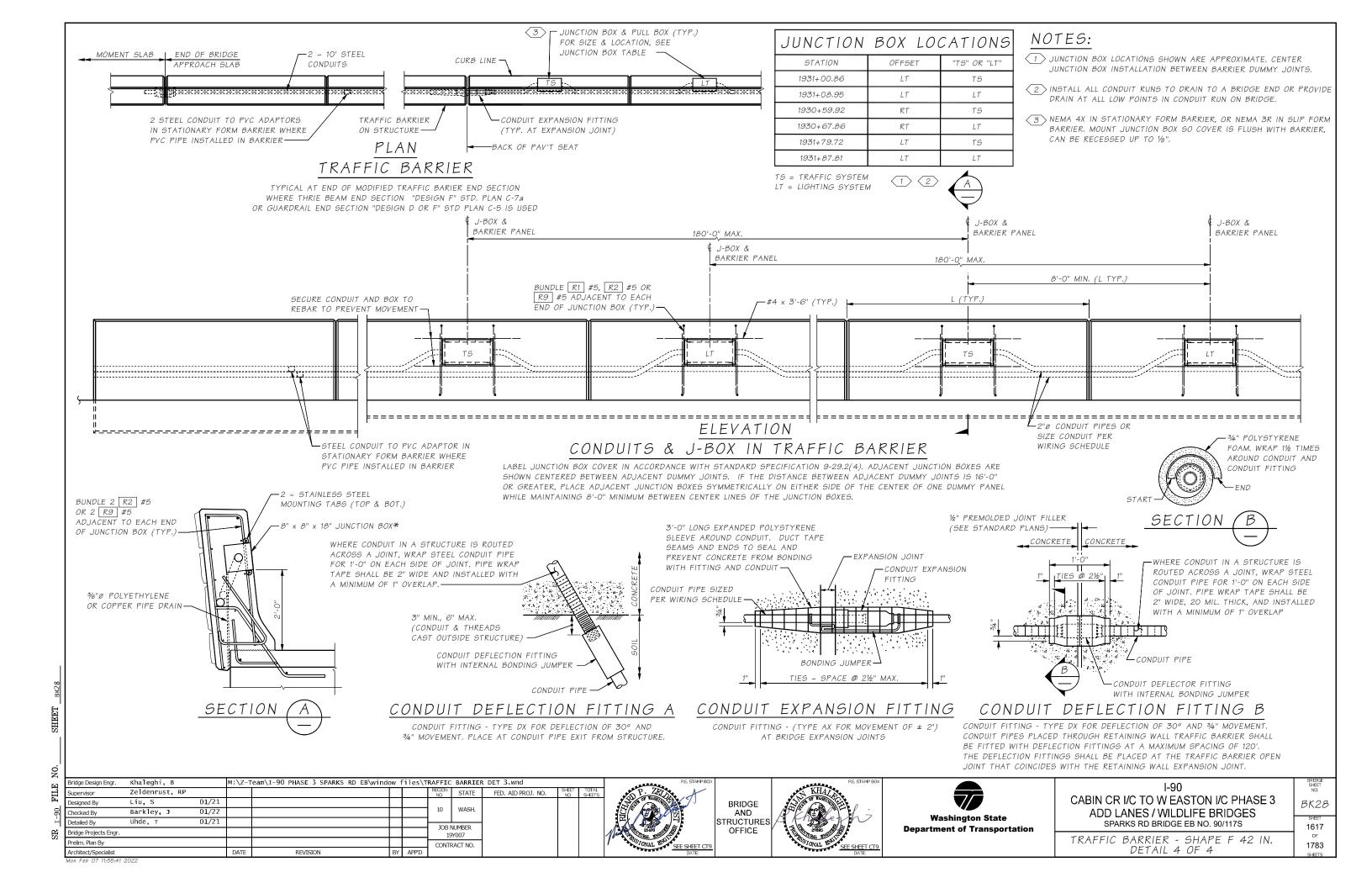
TRAFFIC BARRIER - SHAPE F 42 IN. DETAIL 3 OF 4

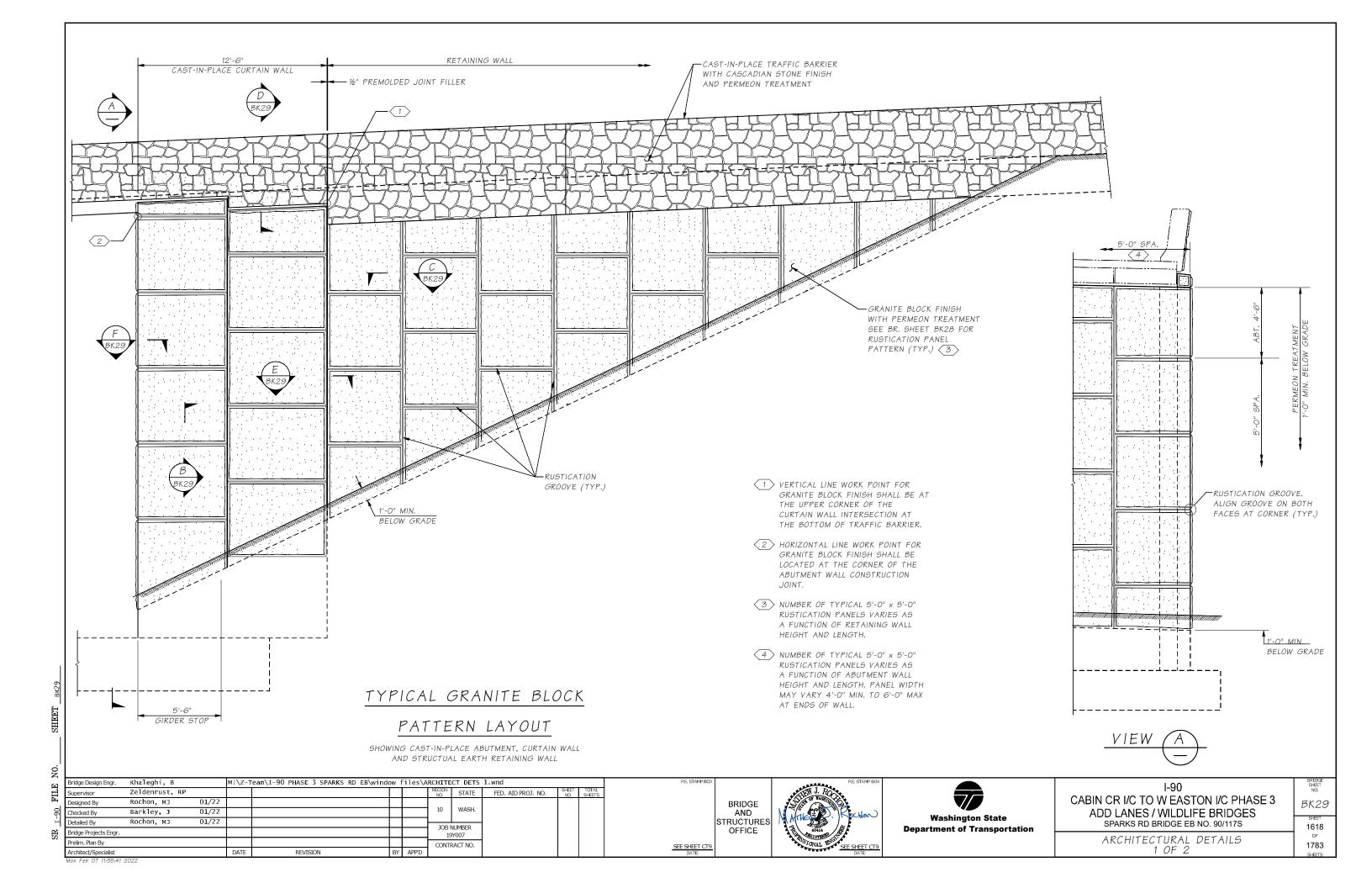
FOR W1 ♥ & W2 BARS SEE WINGWALL

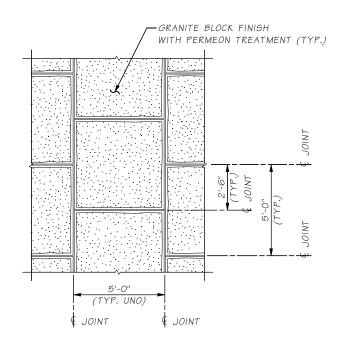
OR RETAINING WALL PLANS.

BK27

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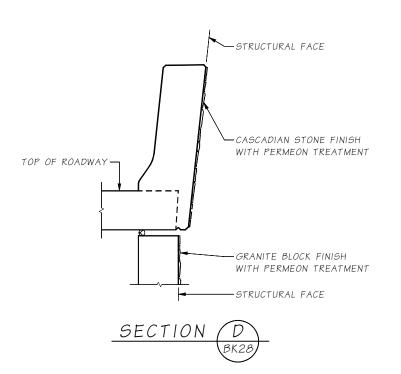


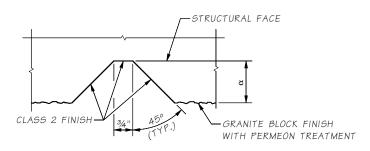




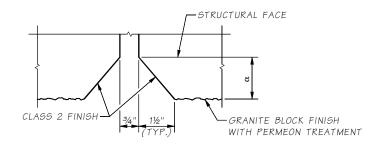
RUSTICATION PANEL PATTERN

TYPICAL FOR S.E.W. PRECAST PANELS. CAST-IN-PLACE CURTAIN WALL SIMILAR.



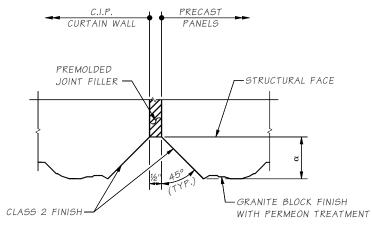


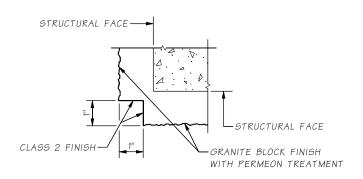
CAST-IN-PLACE RUSTICATION GROOVE TYPICAL FOR VERTICAL AND HORIZONTAL APPLICATIONS



PRECAST RUSTICATION GROOVE TYPICAL FOR VERTICAL AND HORIZONTAL APPLICATIONS

> lpha concrete surface varies IN DEPTH DEPENDING ON FORMLINER MANUFACTURERS AMPLITUDE ± APPROXIMATELY 134"





SECTION CAST-IN-PLACE & PRECAST CORNER GROOVE

SECTION	F
CAST-IN-PLACE CORNER GROOVE	BK28

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BRIDGE AND STRUCTURES OFFICE SEE SHEET CT9

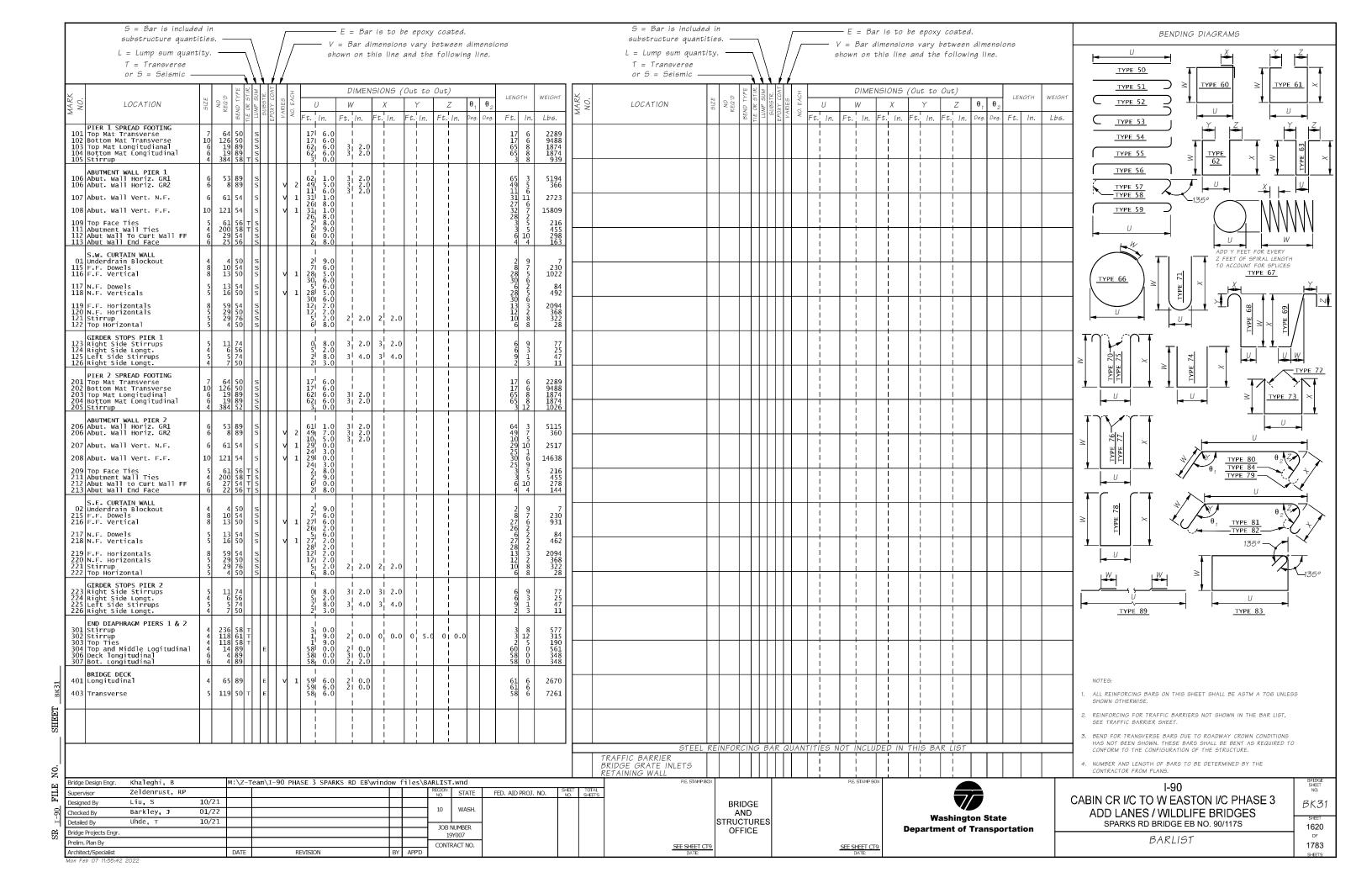




I - 90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE EB NO. 90/117S

ARCHITECTURAL DETAILS 2 OF 2

BK30 1619 1783



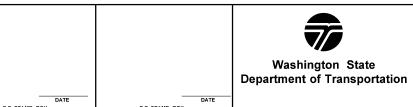
	PLAN REFERENCE	
SHEET NO.	NO.	TITLE
		SPARKS ROAD BRIDGE WB
1621	INB12	INDEX BRIDGE
1622	BL1	LAYOUT
1623	BL2	GENERAL NOTES
1624	BL3	CONSTRUCTION SEQUENCE
1625	BL4	FOUNDATION LAYOUT
1626	BL5	PEIR 1 PLAN
1627	BL6	PER 1 ELEVATION
1628	BL7	PER 1 DETAILS
1629	BL8	PER 2 PLAN
1630	BL9	PIER 2 ELEVATION
1631	BL10	PIER 2 DETAILS
1632	BL11	NW CURTAIN WALL DETAILS
1633	BL12	NE CURTAIN WALL DETAILS
1634	BL13	GIRDER STOP DETAILS
1635	BL14	FRAMING PLAN
1636	BL15	TYPICAL SECTION
1637 - 1639	BL16 - BL18	SLAB GIRDER DETAILS
1640	BL19	SLAB GIRDER END DIAPHRAGM
1641	BL20	BRIDGE DECK REINFORCEMENT PLAN
1642	BL21	BRIDGE DECK REINFORCEMENT SECTION
1643 - 1645	BL22 - BL24	APPROACH SLAB DETAILS

INDEX (CONTINUED)
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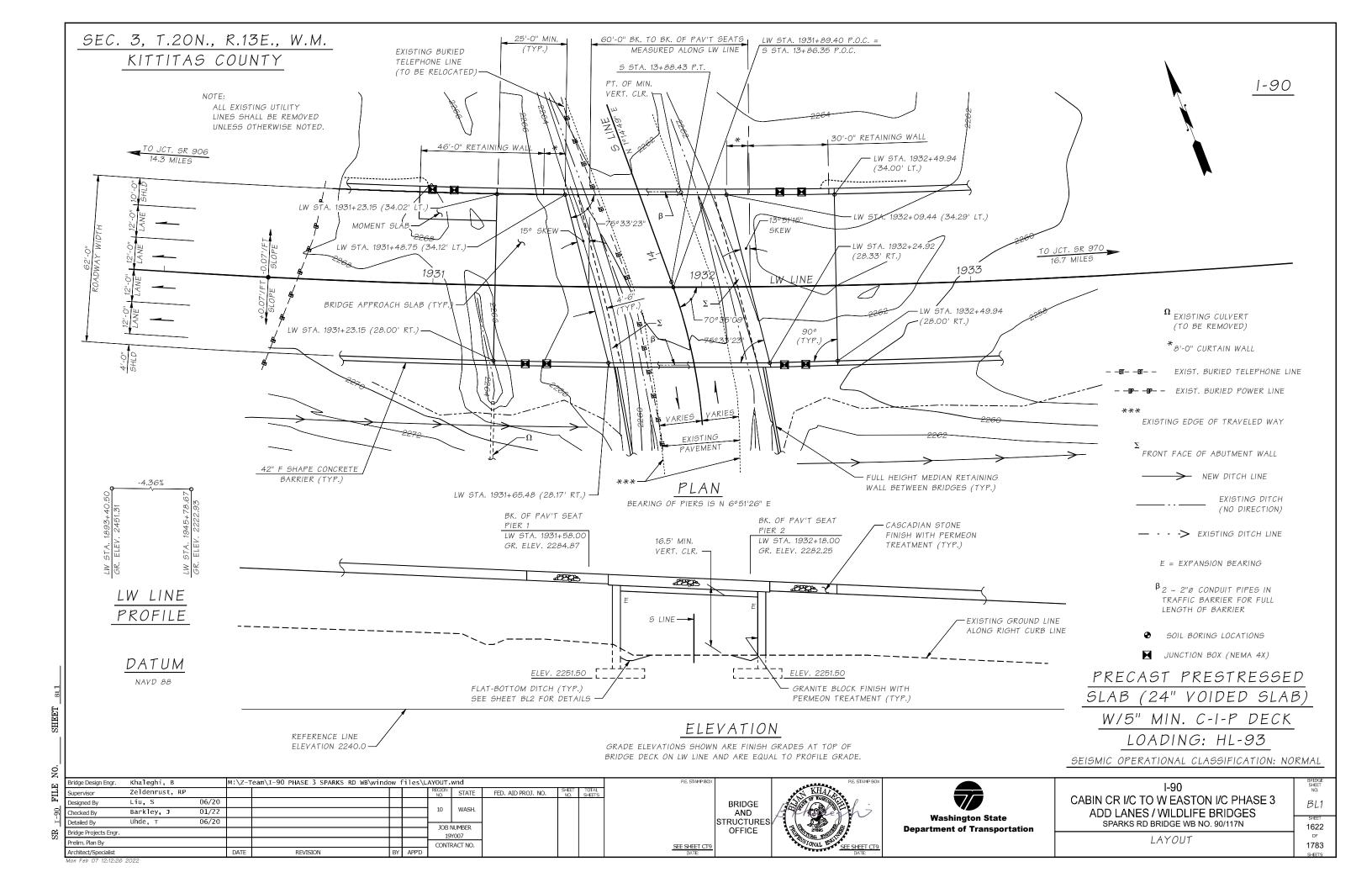
SHEET NO.	PLAN REFERENCE NO.	TITLE
1646 - 1649	BL25 - BL28	TRAFFIC BARRIER - SHAPE F 42 IN. DETAILS
1650 - 1651	BL29 - BL30	ARCHITECTURE DETAILS
1652	BL31	BARLIST

NOTE: ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN

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CHECKED BY	K. KING				CONTR	RACT NO.	LOCATION NO.	
PROJ. ENGR.	A. BYRD							
REGIONAL ADM.	T. TREPANIER	REVISION	DATE	BY				



	Plot 13
I-90	PLAN REF NO
CABIN CREEK I/C TO W EASTON I/C	INB12
PHASE 3 - ADD LANES/WILDLIFE BRIDGES	SHEET 1621 OF
INDEX BRIDGE	1783 SHEETS



		CURVE	DATA		
P.I. STATION	Δ	RADIUS	TANGENT	LENGTH	BK. TANGENT BRG.
LW 1929+57.94	36°01'30" LT.	3000.00'	975.48'	1886.26'	S 45°41'30" E
S 13+57.61	17°48'13" LT.	200.00'	31.33'	62.15'	N 19°03'02" E

GENERAL NOTES

- 1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2022.
- 2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020. DEAD LOAD INCLUDES ADDITIONAL FUTURE WEARING SURFACE OF 35 POUNDS PER SQUARE FOOT.
- 3. THE SEISMIC DESIGN OF THIS STRUCTURE HAS BEEN COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN 2ND EDITION 2011, USING SEISMIC DESIGN CATEGORY A, SITE CLASS C, A PEAK GROUND ACCELERATION OF 0.23, AND 0.2 SECOND AND 1.0 SECOND SPECTRAL ACCELERATION OF 0.52 AND 0.15, RESPECTIVELY, ON SITE CLASS B.
- 4. THE CONCRETE IN BRIDGE DECKS SHALL BE CLASS 4000D. THE CONCRETE IN BRIDGE APPROACH SLABS SHALL BE CLASS 4000A. ALL OTHER CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
- 5. THE BACKFILL BEHIND THE ABUTMENTS MAY BE PLACED PRIOR TO PLACEMENT OF THE SUPERSTRUCTURE, IN ACCORDANCE WITH SECTION 2-09.3(1)E.
- 6. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2½" AT THE TOP OF THE BRIDGE DECK, 3" AT THE BOTTOM OF FOOTING, AND 2" AT ALL OTHER LOCATIONS.
- 7. FALSEWORK SHALL BE CAREFULLY RELEASED TO PREVENT IMPACT OR UNDUE STRESS IN THE STRUCTURE.
- 8. CONDUITS, JUNCTION BOXES, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL COORDINATE THESE PLANS WITH THE ELECTRICAL, I.T.S. AND OTHER CIVIL PLANS.
- 9. NOMINAL BEARING RESISTANCE OF SPREAD FOOTING SHALL BE TAKEN AS FOLLOWS:

PIER NO.	SERVICE LIMIT STATE	STRENGTH LIMIT STATE	EXTREME 1 LIMIT STATE
1	16 KSF	44.4 KSF	22.2 KSF
2	16 KSF	44.4 KSF	22.2 KSF

- 10. THE 42 IN. TRAFFIC BARRIER HAS BEEN DESIGNED IN ACCORDANCE WITH AASHTO LRFD DESIGN SPECIFICATION TEST LEVEL 5.
- 11. SNOW ACCUMULATION ON COMPLETED BRIDGE DECKS CLOSED TO TRAFFIC SHALL NOT EXCEED 4'-O" DEPTH. ANY SNOW REMOVAL EQUIPMENT SHALL NOT EXCEED LEGAL LOAD LIMITS.

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I-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE WB NO. 90/117N

GENERAL NOTES

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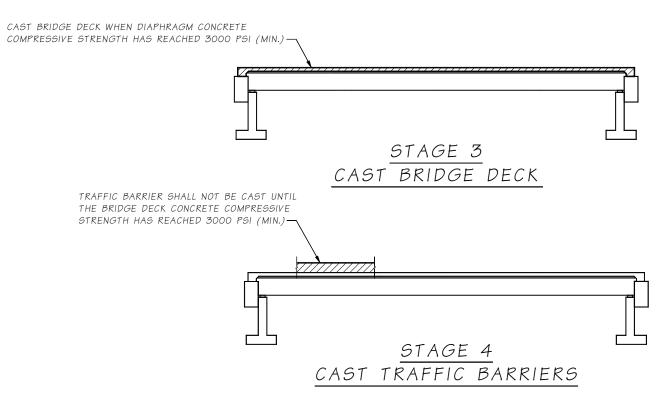
1623 of 1783

SR + OF FILE NO.

INSTALL TEMPORARY BRACING FOR ERECTION IN ACCORDANCE WITH SECTION 6-02.3(17)F4.

-PLACE BRIDGE DECK REINFORCEMENT AFTER CASTING DIAPHRAGMS END DIAPHRAGM (TYP.)-STAGE 2 CAST DIAPHRAGMS AND PLACE BRIDGE DECK REINFORCEMENT

INSTALL TEMPORARY BRACING FOR DIAPHRAGM AND DECK PLACEMENT IN ACCORDANCE WITH SECTION 6-02.3(17)F5.



CONSTRUCTION SEQUENCE ~ SUPERSTRUCTURE

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1-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE WB NO. 90/117N

TEMPORARY STRAND

CUTTING SEQUENCE

2. REMOVE EXPANDED POLYSTYRENE IN 2" x 6" RECESSES IN

3. CUT STRANDS IN 2" x 6" RECESSES. STRANDS MAY BE CUT BY USING A CUTTING TORCH AND MOVING THE FLAME BACK AND FORTH OVER THE LENGTH OF EXPOSED STRAND

TO LET INDIVIDUAL WIRES BREAK ONE AT A TIME TO

RELEASED IN A SYMMETRICAL MANNER AROUND THE GIRDER CENTERLINE STARTING WITH THOSE NEAREST THE

4. REMOVE ALL MOISTURE IN RECESS PRIOR TO FILLING

CENTERLINE AND WORKING OUTWARDS.

LESSEN THE SHOCK TO THE GIRDER, STRANDS SHALL BE

1. ERECT AND BRACE GIRDERS.

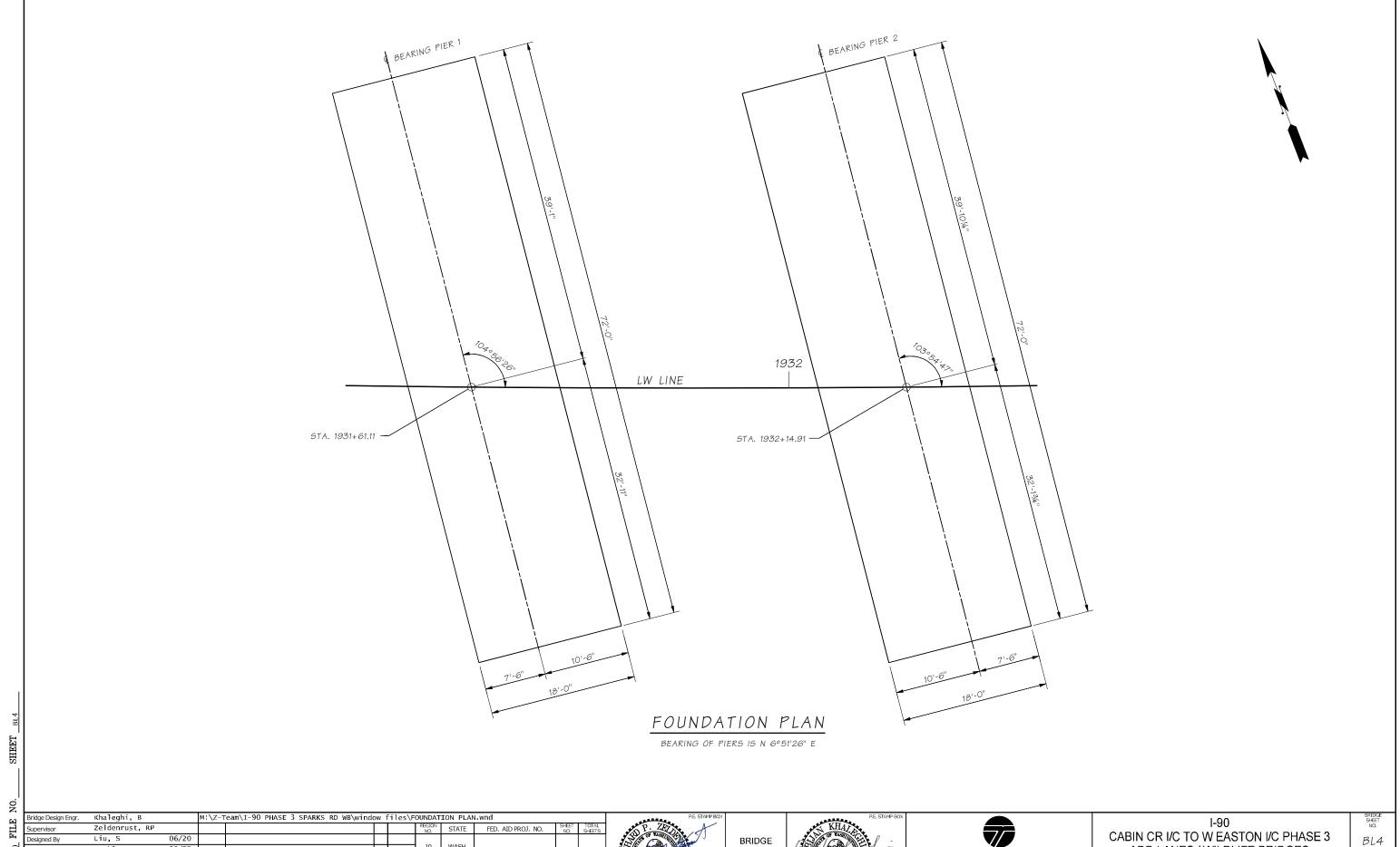
TOP FLANGE OF GIRDERS.

RECESS WITH GROUT.

CONSTRUCTION SEQUENCE

BL3 1624

1783



06/20 Designed By WASH. Barkley, J 01/22 Checked By Detailed By
Bridge Projects Engr. 06/20 Uhde, ⊤ JOB NUMBER 19Y007 Prelim. Plan By CONTRACT NO. DATE REVISION



BRIDGE AND STRUCTURES OFFICE





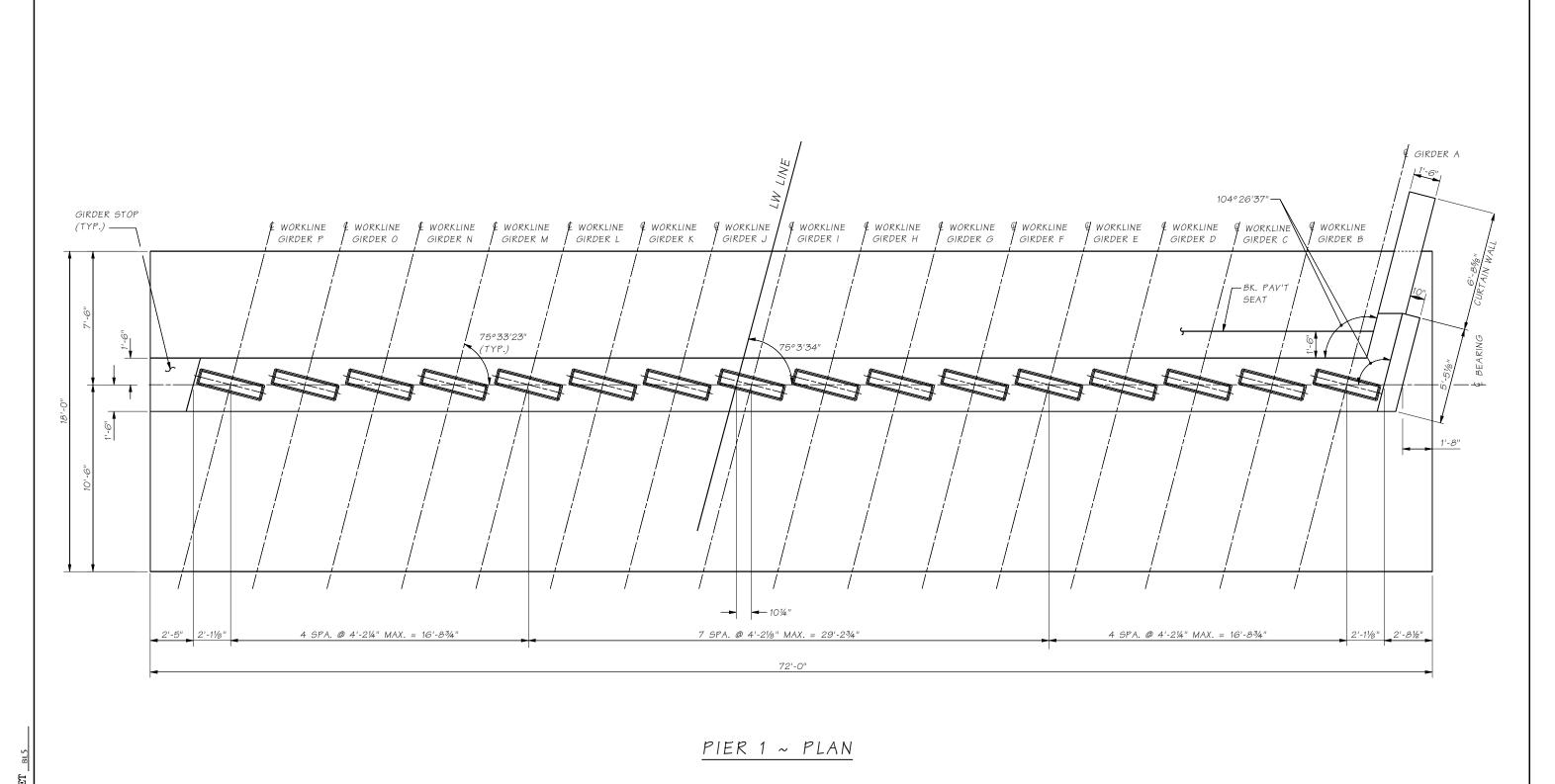
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CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

FOUNDATION LAYOUT

1625 OF 1783

Architect/Specialist

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BRIDGE AND STRUCTURES OFFICE



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ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N
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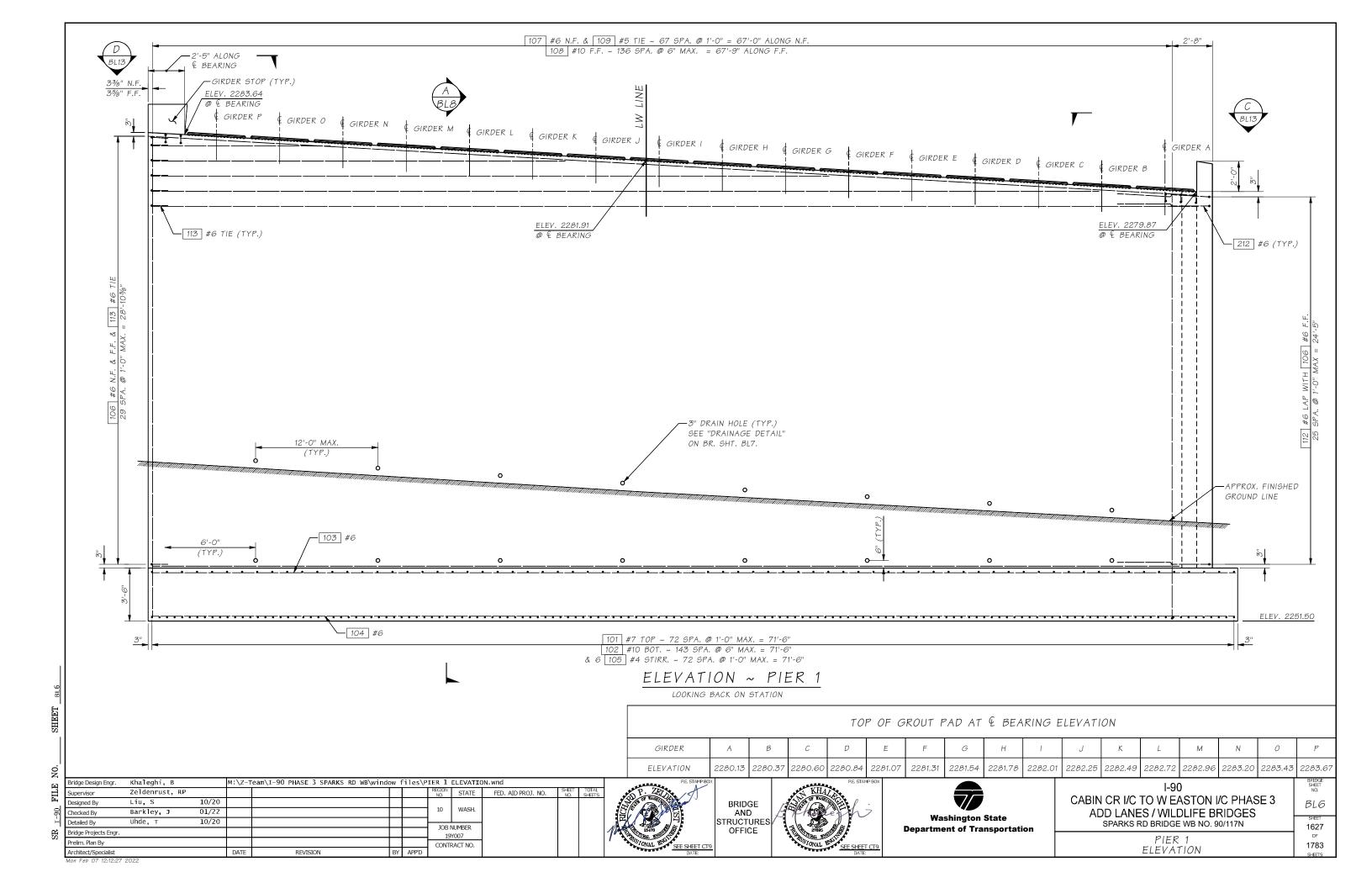
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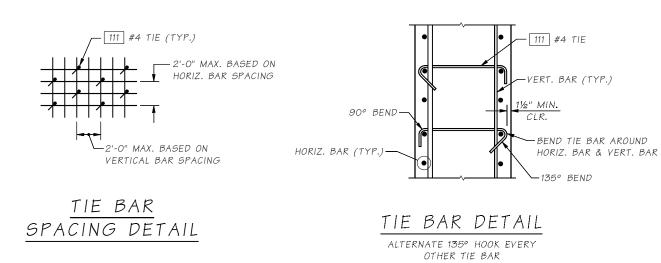
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1783

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BELEV. 2266.0

GRAVEL BACKFILL

FOR WALL TO TOP

OF SUBGRADE

OOOOOO

GRAVEL BACKFILL

FOR DRAIN PIPE

S"Ø UNDERDRAIN PIPE

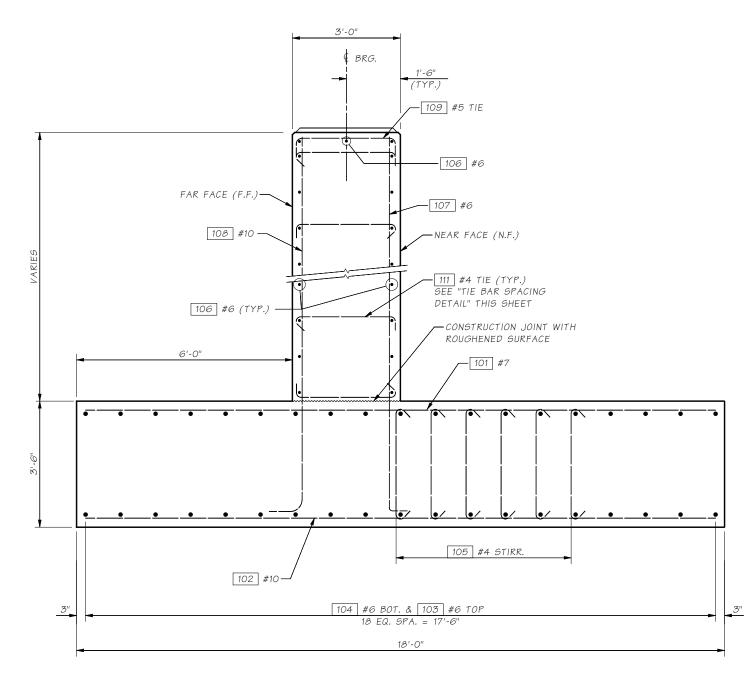
GRAVEL BACKFILL

FOR DRAIN

FOR DRAIN

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DRAINAGE DETAIL





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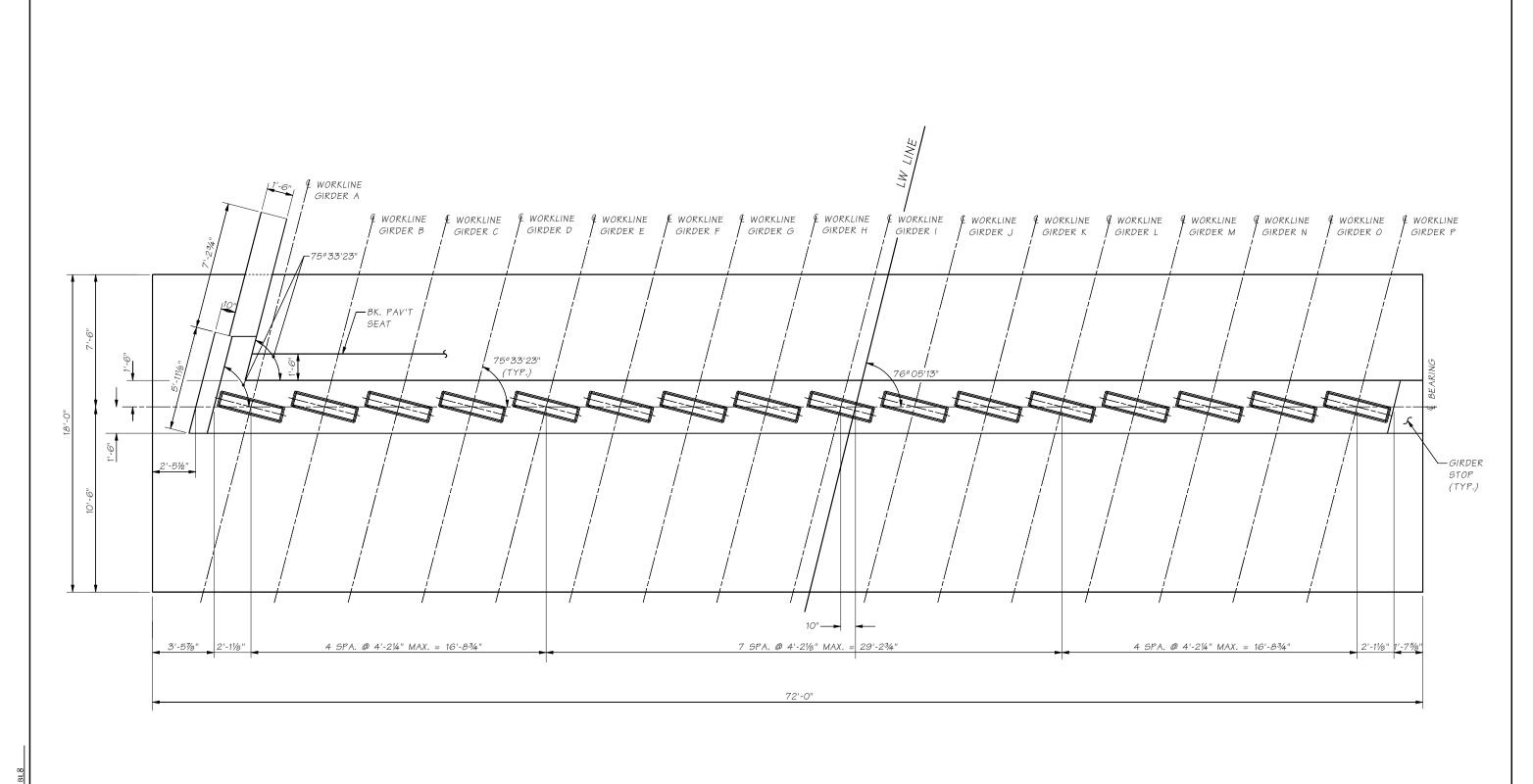
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PIER 1 DETAILS



PIER 2 ~ PLAN

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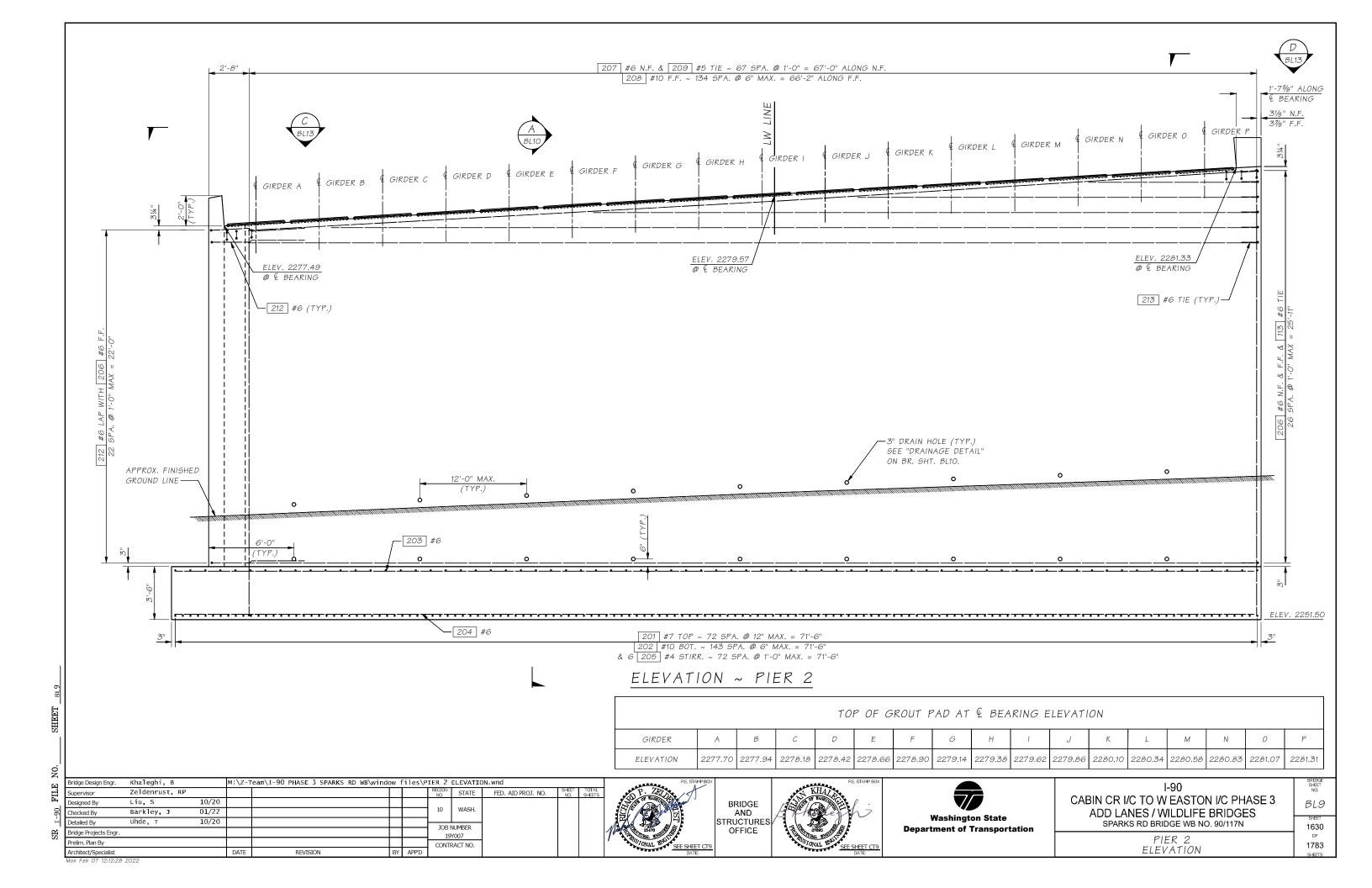


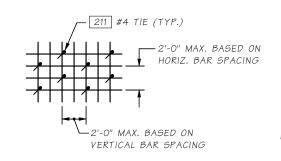


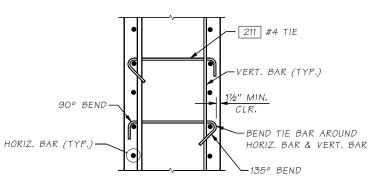
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CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N
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PLAN

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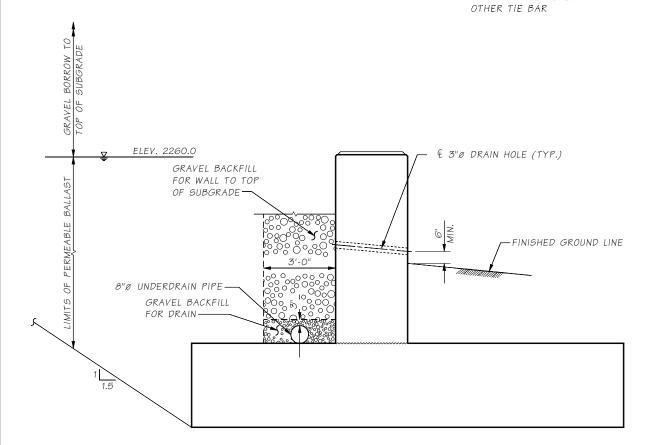




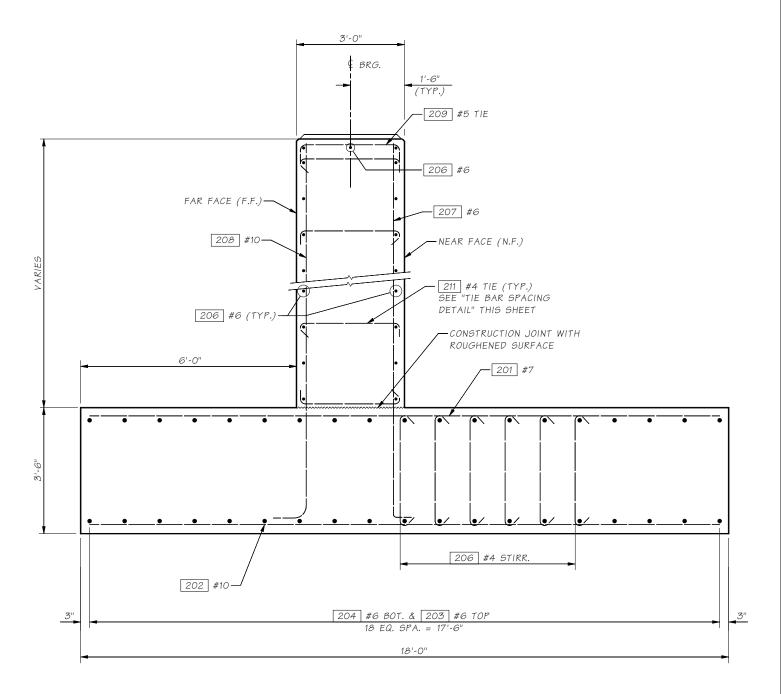


TIE BAR SPACING DETAIL

TIE BAR DETAIL ALTERNATE 135° HOOK EVERY



DRAINAGE DETAIL



SECTION

	Bridge Design Engr.	Khaleghi, B		M:\Z-T	Team\I-90 PHASE 3 SPARKS RD WB\windo	ow f	iles\P	IER 2	DETAILS.	wnd			
	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1
	Designed By	Liu, S	12/20			П							1
3	Checked By	Barkley, J	01/22			П		10	WASH.				
1	Detailed By	Uhde, ⊤	12/20					TODA	NUMBER				1
i	Bridge Projects Engr.								Y007				116
	Prelim. Plan By		, i						RACT NO.				1
	Architect/Specialist			DATE	REVISION	BY	APP'D						

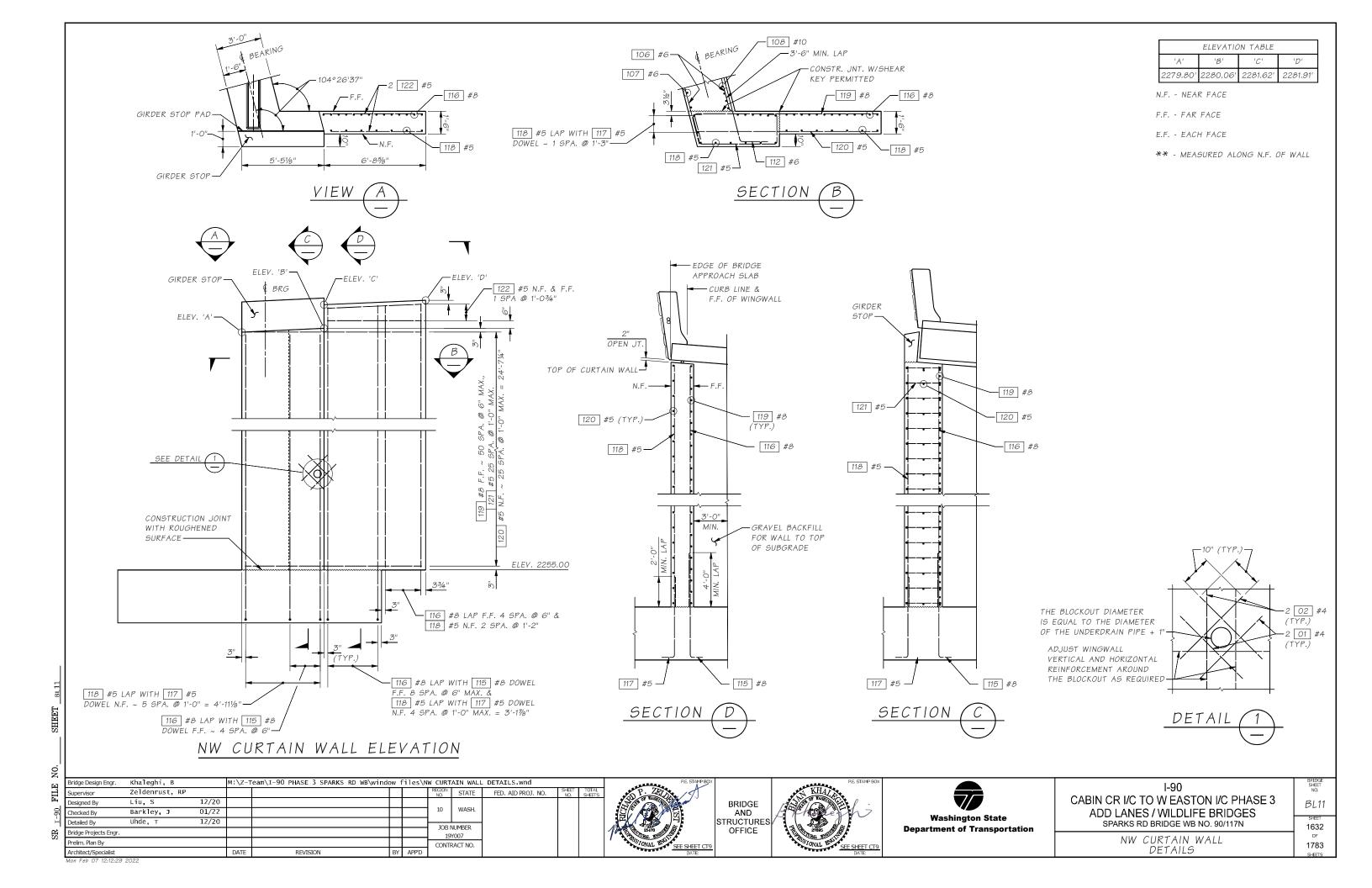


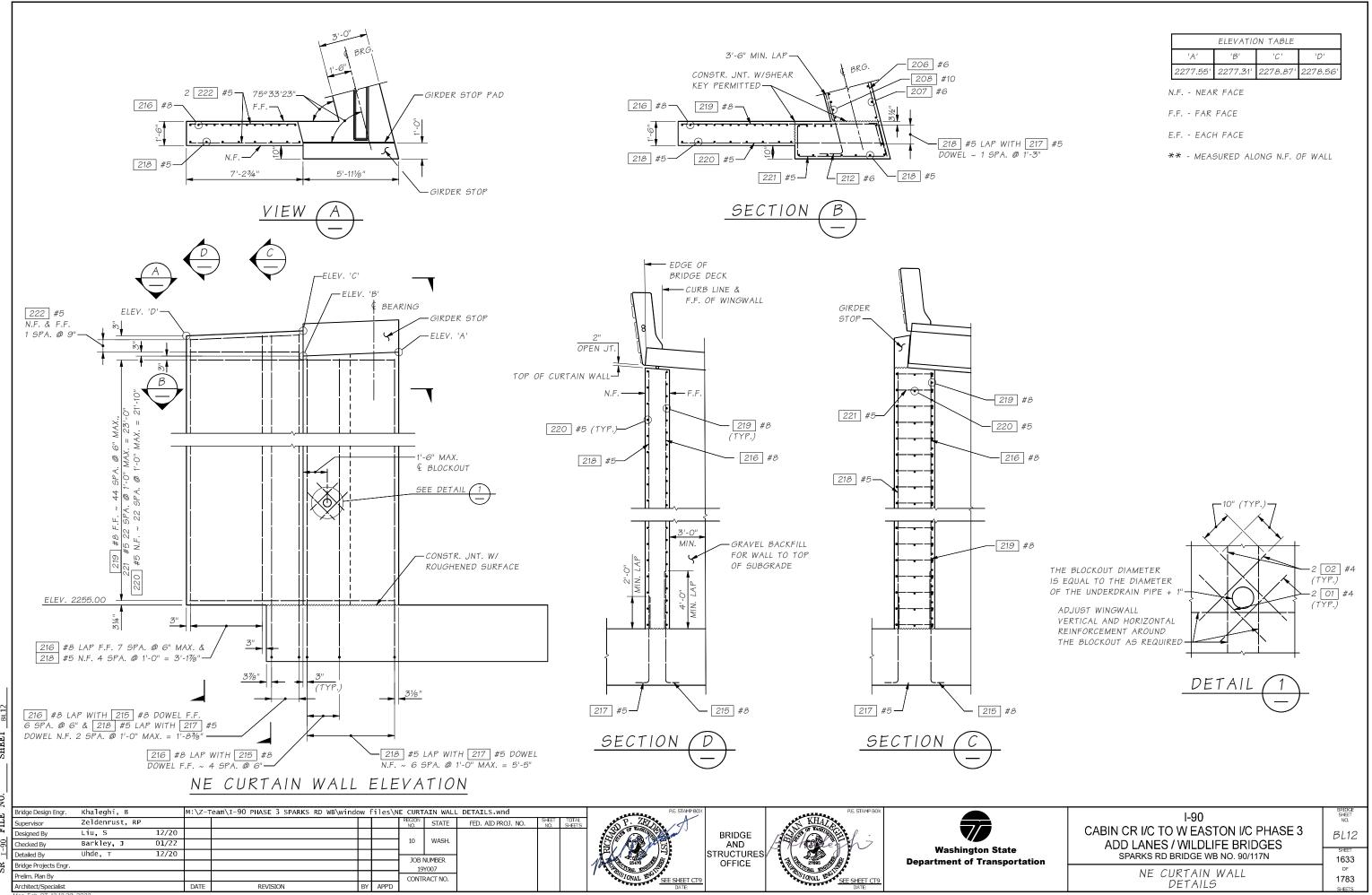
BRIDGE AND STRUCTURES OFFICE



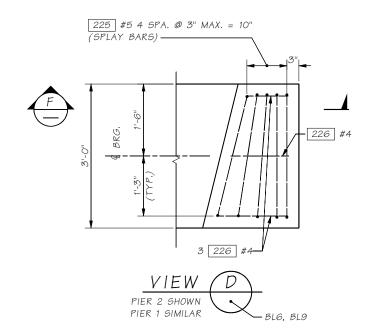
I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N
PIER 2 DETAILS

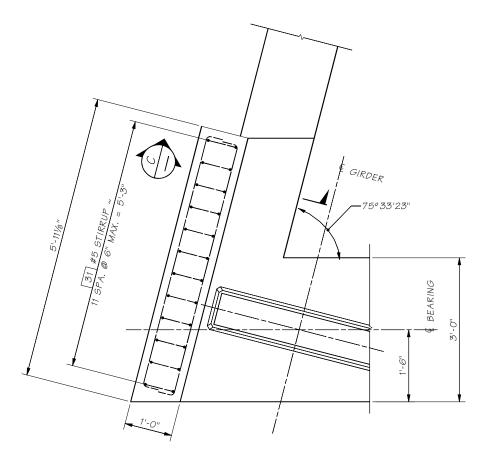
BL10 1631 1783





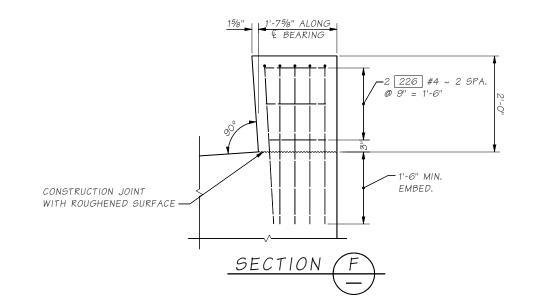
SR 1-90 FI

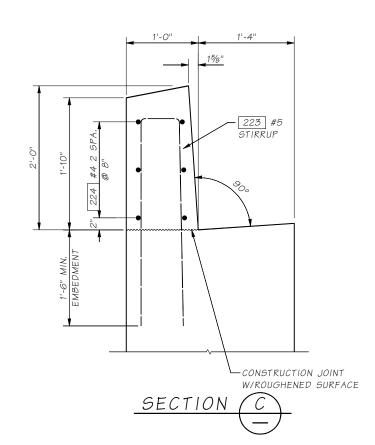




GIRDER STOP

PIER 2 SHOWN, PIER 1 SIMILAR





5	1												
,	Bridge Design Engr.	Khaleghi, B		$M: \Z-T$	Team\I-90 PHASE 3 SPARKS RD WB\win	dow :	files∖B	EARING	DETAILS	.wnd			
1	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	ĺ
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4	Detailed By	∪hde, ⊤	12/20					TOP	II IMPED				
;	Bridge Projects Engr.								NUMBER Y007				1
2	Prelim. Plan By								RACT NO.				1
	Architect/Specialist		•	DATE	REVISION	BY	APP'D						



BRIDGE AND STRUCTURES OFFICE





I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

GIRDER STOP DETAILS

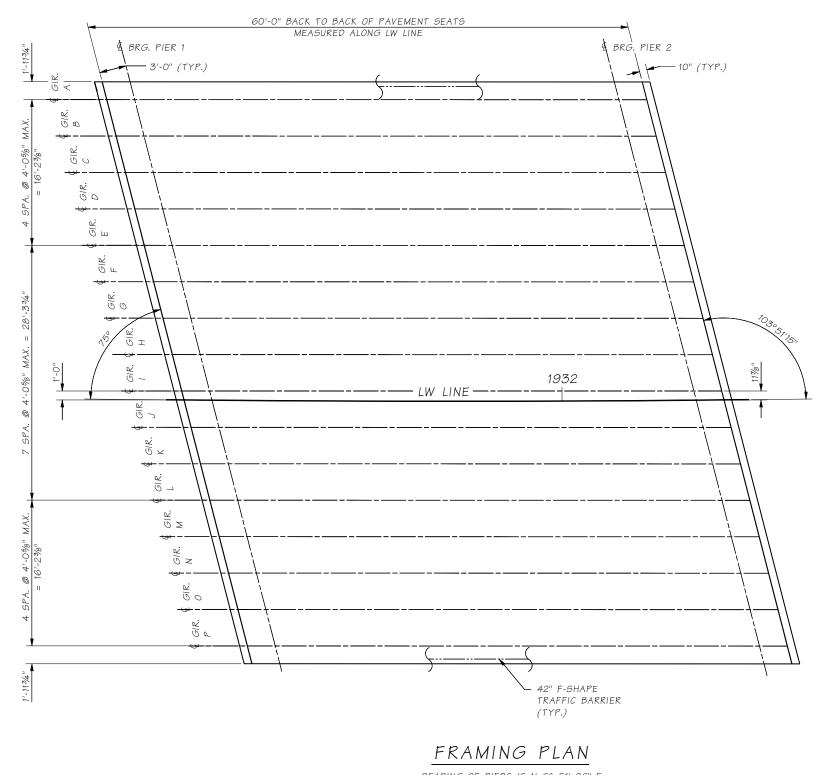
SHEET 1634 OF 1783

BL13

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). SHEET BU

R I-90 FILE



BEARING OF PIERS IS N 6° 51' 26" E

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G-21	Bridge Design Engr.	Khaleghi, B		$M: \Z-T$	Team\I-90 PHASE 3 SPARKS RD WB\windo	ow f	iles\F	RAMING	PLAN.wn	d			
∄	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	ĺ
	Designed By	Liu, S	06/20										ĺ
9	Checked By	Barkley, J	01/22					10	WASH.				
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봈	Bridge Projects Engr.								1011BER 1007				1
J 2	Prelim. Plan By	<u> </u>							ACT NO.				1
	Architect/Specialist			DATE	REVISION	BY	APP'D						

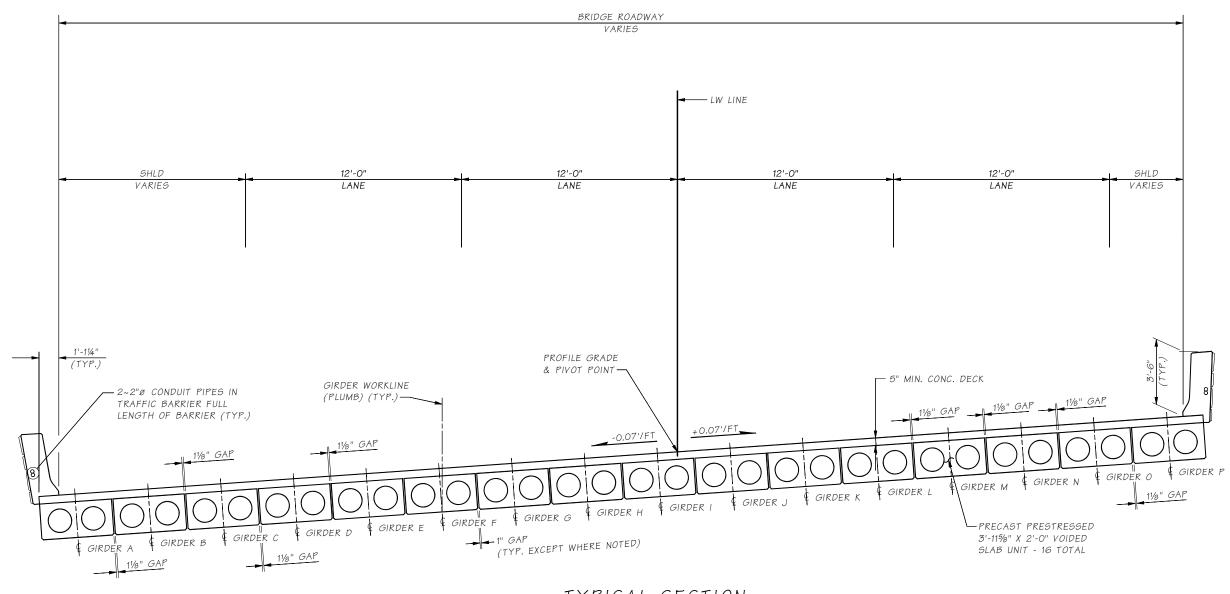






I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

1635 OF FRAMING PLAN 1783



TYPICAL SECTION

	Bridge Design Engr.	Khaleghi, B		$M: \Z-T$	Team\I-90 PHASE 3 SPARKS RD WB\wind	ow f	iles\T	YPICAL	SECTION	I.wnd			
	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	Ι.
	Designed By	Liu, S	06/20] <i>y</i>
3	Checked By	Barkley, J	01/22					10	WASH.				/≗
1	Detailed By	∪hde, ⊤	06/20					TOD	NUMBER				\\^
i	Bridge Projects Engr.								Y007				Mis
	Prelim. Plan By	<u> </u>							RACT NO.				/ ` `
	Architect/Specialist			DATE	REVISION	BY	APP'D					!	







I - 90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N
TYPICAL SECTION

BL15 1636 OF 1783

															G	IRD	ΕR	50	CHE	DUL	E														
		GIRDER HEIGHT	GIRDER WIDTH	PLAN LENGTH	VOIDS	GIRD END DE		MIN. COMP. S			PRESTRES ROW:		ANDS	(SEE GIRI ROW 2	DER NOTE:	3 2-4) TOP R	OW	_		MIDS VERT	ICAL				SVERSE PRCEMEN				TUDINAL RCEMENT		SHIF	PING A	ND HAI	NDLING DETAILS	
SPAN NAGO	GIRDER	Н	W	(ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	NUMBER DIAMETER	END 1 TYPE END 2 TYPE	1 Θ2	@ 28-DAYS F'C (KSI)	@ RELEASE F'CI (KSI)	PERMANENT STRANDS	EXTENDED NUMBER AND LENGTH	DEBONDED NUMBER AND LENGTH	PERMANENT STRANDS	EXTENDED NUMBER AND LENGTH	DEBONDED NUMBER AND LENGTH	PERMANENT STRANDS	STRANDS	"A" DIMENSION A & BEARINGS	DECK SCREED CAMBER C	LOWER BOUND @ 40 DAYS	UPPER BOUND @ 120 DAYS	BAR SIZE	SPACING BY	AR SIZE	SPACING SPACING LENGTH	BAR SIZE	SPACING BY LENGTH	BAR SIZE NO. OF	BAR SIZE NO. OF BARS	MAXIMUM MIDSPAN VERTICAL DEFLECTION AT SHIPPING	L	L1	L2	K _O MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT (KIP-IN/RAD)	W _{CC} MINIMUM SHIPPING SUPPORT CNTRTO-CNTR. WHEEL SPACING
1	A-P	2'-0"	3'-11%"	57'-8¾"	2 1'-33/4	" A A 75.	57 75.57	10.0	7.5	19	4 @ 1'-4"	4 @ 3'-0"	3	1	-	2	4	6½"	3/8"	3/4"	1½"	#5	3" 1'-0)" #5	5" 10'-0	D" #5	9" 5	#4 55	#4 5	13/8"	3'-0"	2'-0"	2'-0"	40,000.00	6'-0"

GIRDER NOTES

- 1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
- 2. ALL STRANDS SHALL BE 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI (43.94 KIPS PER STRAND). STRANDS SHALL BE SYMMETRICAL ABOUT THE GIRDER CENTERLINE. EXTERIOR STRANDS IN EACH ROW SHALL BE FULLY BONDED.
- 3. SPACE EXTENDED STRANDS SYMMETRICALLY AND EVENLY ACROSS GIRDER WIDTH. STAGGER EXTENDED STRAND LOCATIONS WITH RESPECT TO GIRDERS IN ADJACENT SPANS.
- 4. DEBONDED STRANDS SHALL BE DEBONDED AT EACH GIRDER END FOR THE INDICATED LENGTH PARALLEL TO THE GIRDER CENTERLINE. DEBONDED STRANDS SHALL NOT BE EXTENDED PAST GIRDER ENDS. DEBONDED STRANDS SHALL BE SYMMETRICALLY PLACED ABOUT THE GIRDER CENTERLINE. DEBONDED LENGTHS OF PAIRS OF STRANDS THAT ARE SYMMETRICALLY POSITIONED ABOUT THE GIRDER CENTERLINE SHALL BE EQUAL.

5 = TO MIDSPAN.

ž													
÷1	Bridge Design Engr.	Khaleghi, B		M:\Z−T	Team\I-90 PHASE 3 SPARKS RD WB\windo	ow f	iles\SI	LAB GI	RDER DET	AIL 1.wnd			
∄	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	l
	Designed By	Liu, S	06/20										Ī
8	Checked By	Barkley, J	01/22					10	WASH.				
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ž	Bridge Projects Engr.								YOO7		1		11
,,	Prelim. Plan By	<u> </u>							RACT NO.				ا ′
	Architect/Specialist			DATE	REVISION	BY	APP'D				1		1







I - 90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

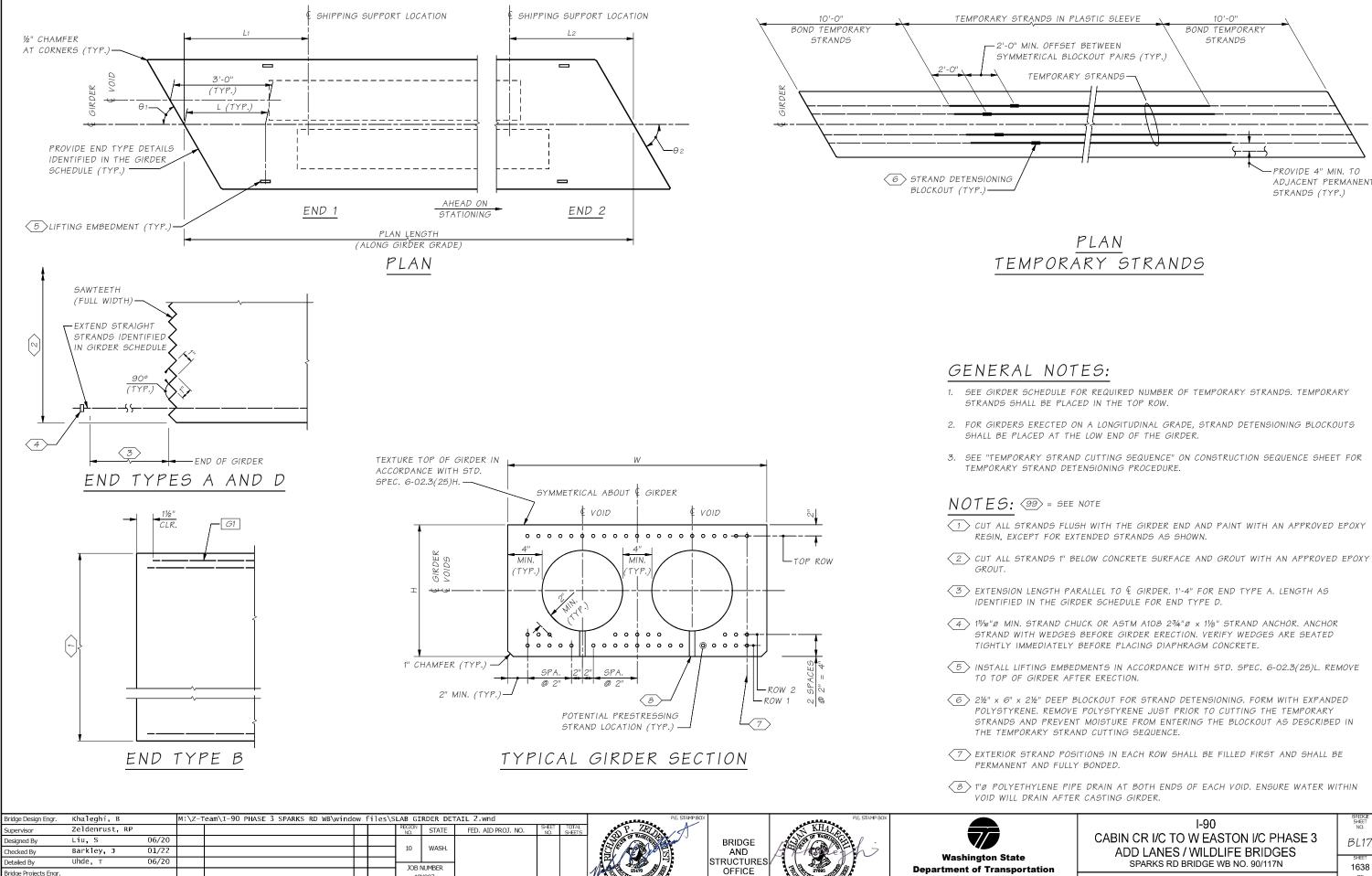
SLAB GIRDER DETAILS 1 OF 3 BRIDGE SHEET NO.

BL16

SHEET

1637 OF 1783

 SR_{1-90} FILE NO.



CONTRACT NO.

1-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES

SPARKS RD BRIDGE WB NO. 90/117N SLAB GIRDER

DETAILS 2 OF 3

BOND TEMPORARY

STRANDS

PROVIDE 4" MIN. TO

STRANDS (TYP.)

ADJACENT PERMANENT

1638 1783

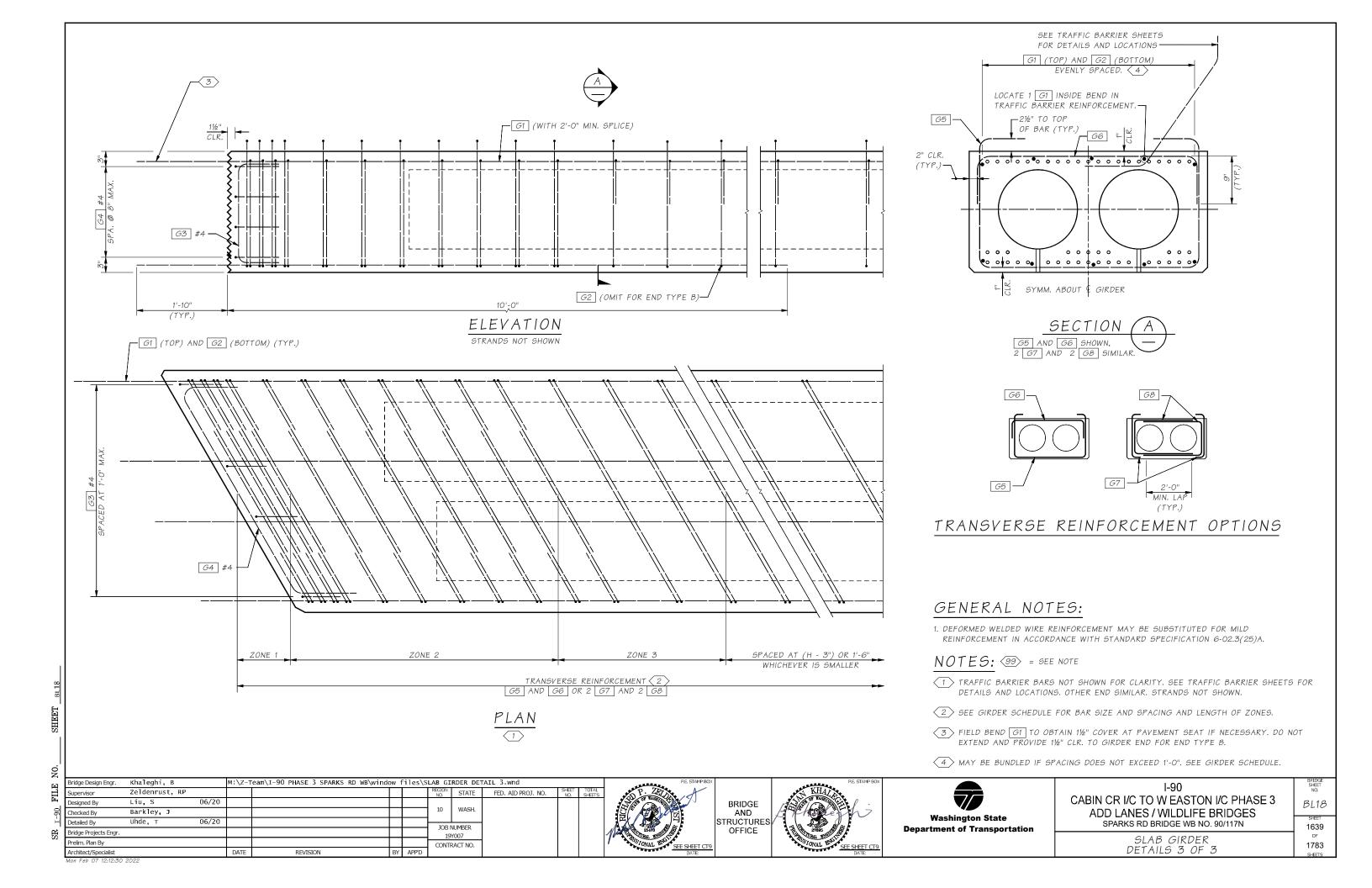
BL17

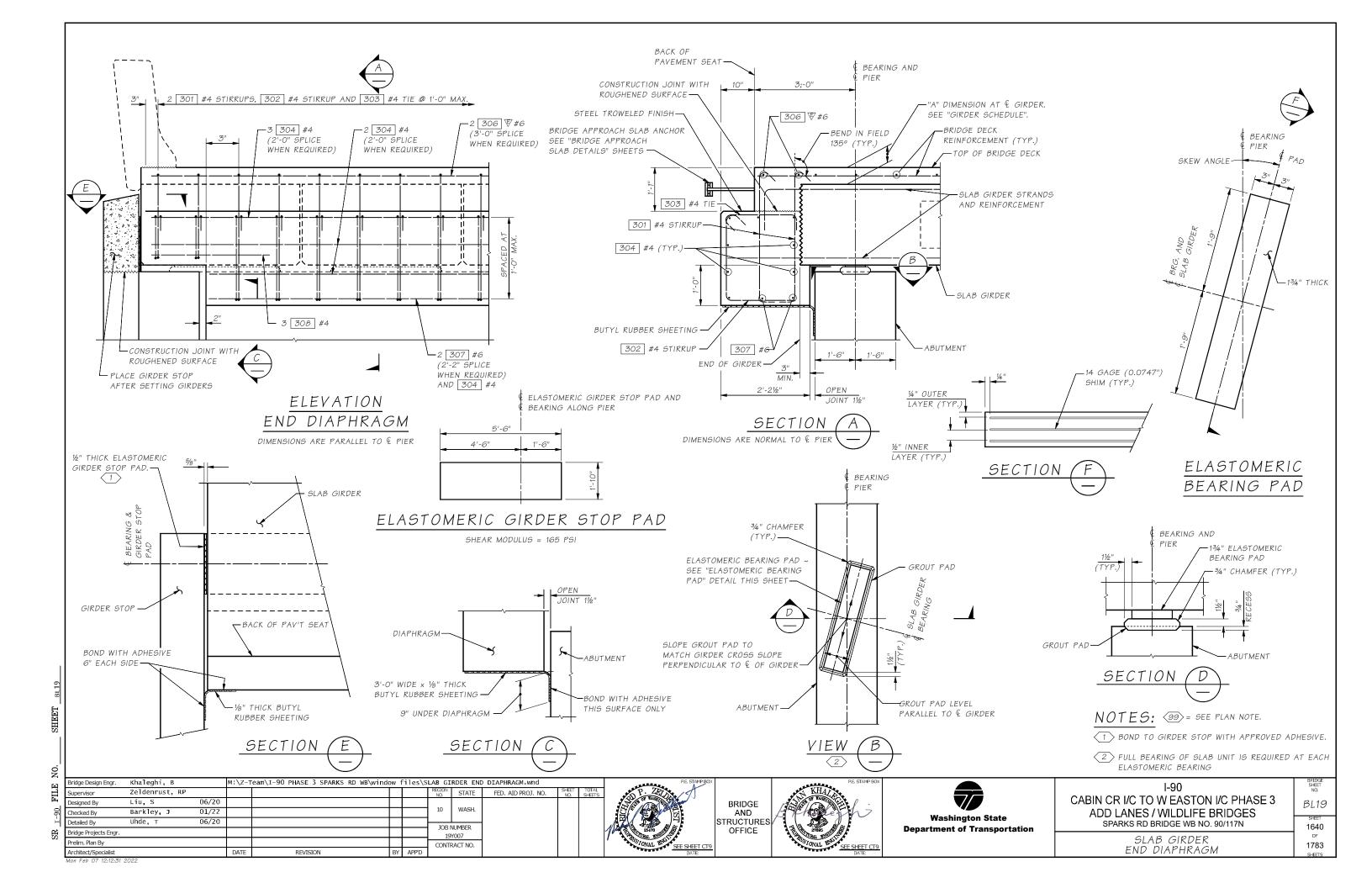
Architect/Specialist

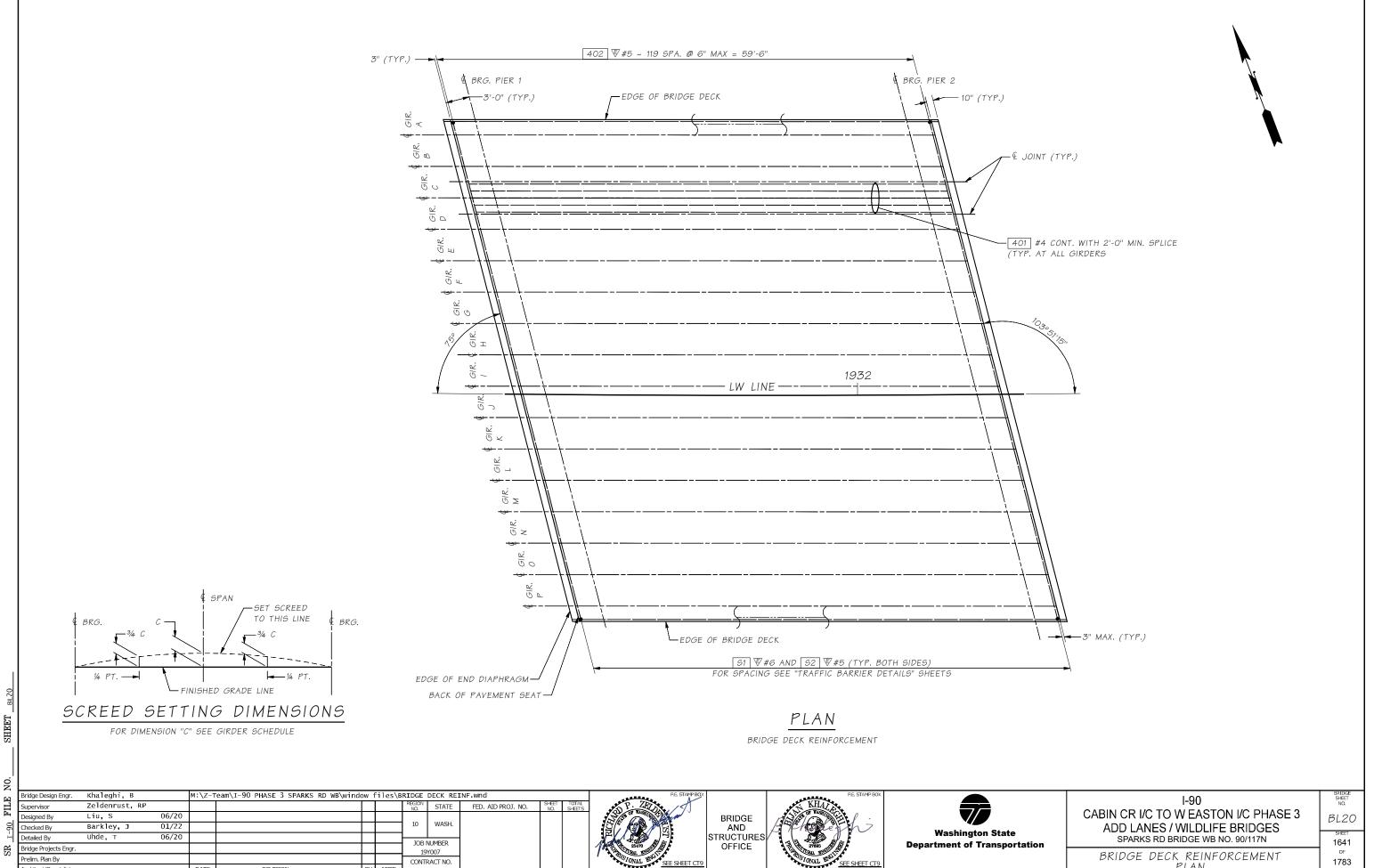
DATE

REVISION

Prelim, Plan By





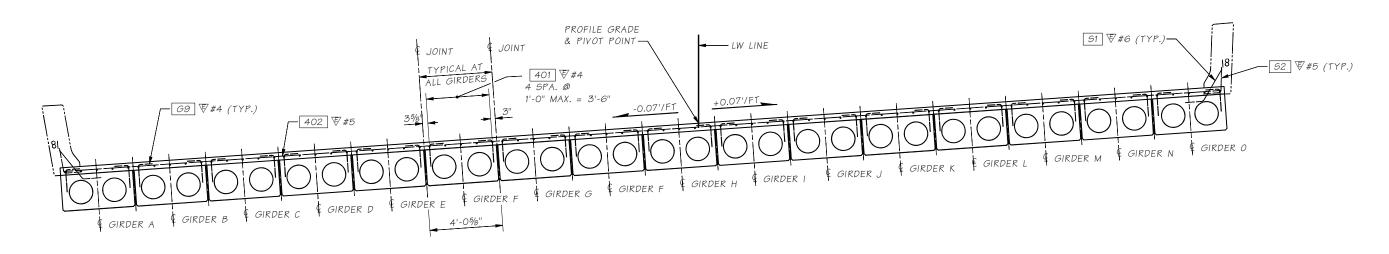


PLAN

Architect/Specialist

DATE

REVISION



SECTION BRIDGE DECK REINFORCEMENT

Khaleghi, B M:\Z-Team\I-90 PHASE 3 SPARKS RD WB\window files\BRIDGE DECK REINF SECTION.wnd Bridge Design Engr. REGION STATE Zeldenrust, RP FED. AID PROJ. NO. 06/20 Designed By WASH. 01/22 Barkley, J Checked By 06/20 Uhde, ⊤ Detailed By JOB NUMBER 19Y007 Bridge Projects Engr. Prelim. Plan By CONTRACT NO. Architect/Specialist
Mon Feb 07 12:12:31 DATE

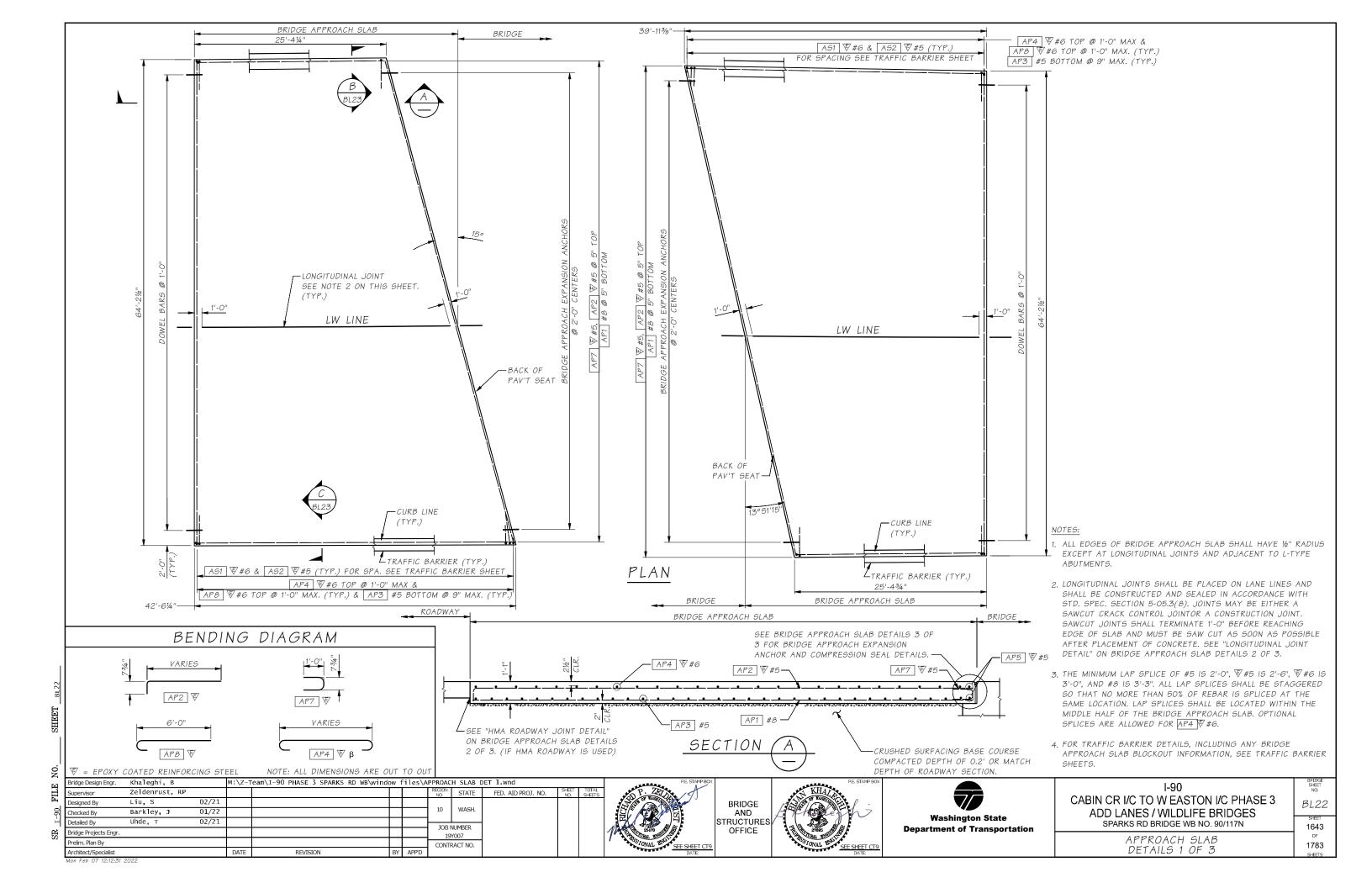


BRIDGE AND STRUCTURES OFFICE

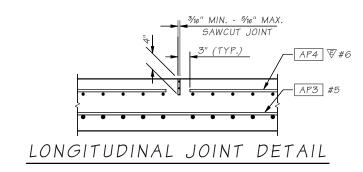


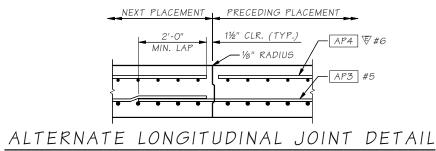
I-90 CABIN CR I/C TO W EASTON I/C PHASE 3 ADD LANES / WILDLIFE BRIDGES SPARKS RD BRIDGE WB NO. 90/117N

BRIDGE DECK REINFORCEMENT SECTION SHEET 1642 OF 1783

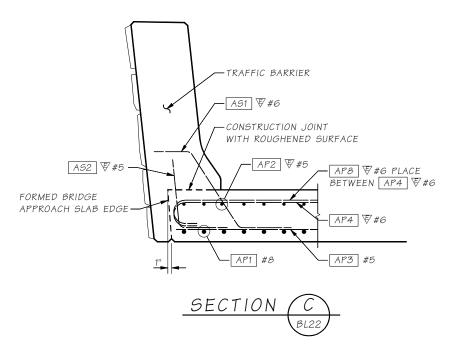


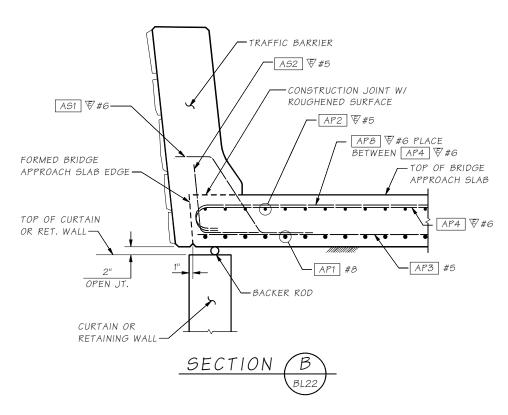
PCCP ROADWAY DOWELS SHALL BE INSTALLED PARALLEL TO ROADWAY AND TO EACH OTHER.





EDGE PRECEDING PLACEMENT ONLY WITH 1/8" RADIUS.





Bridge Design Engr.	Khaleghi, B		$M: \Z-T$	Team\I-90 PHASE 3 SPARKS RD WB\win	dow 1	files\A	PPROAC	H SLAB D	ET 2.wnd			Г
Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	l
Designed By	Liu, S	02/21										1
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Bridge Projects Engr.								NUMBER Y007				11
Prelim. Plan By							_	RACT NO.				١′
Architect/Specialist			DATE	REVISION	BY	APP'D]					

PE. STAMP BOX

TO THE STAMP BOX

SEE SHEET CT9

DATE

BRIDGE AND STRUCTURES OFFICE



7
Washington State
Department of Transportation

I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

BL23

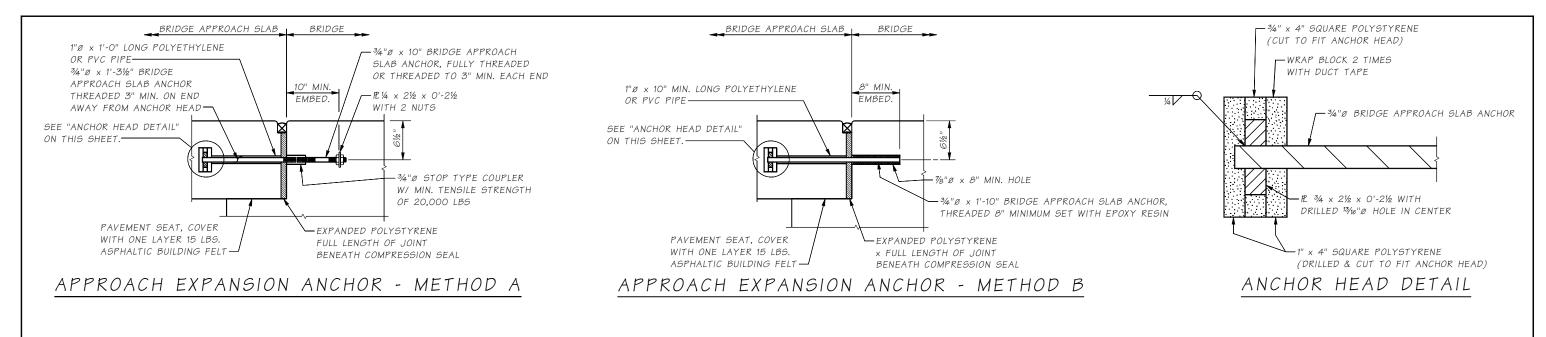
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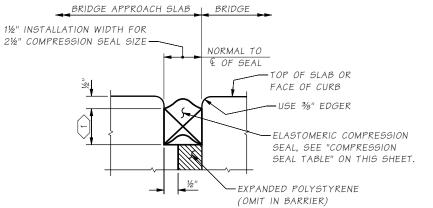
1783

APPROACH SLAB DETAILS 2 OF 3

TO 1 106-1 NTC

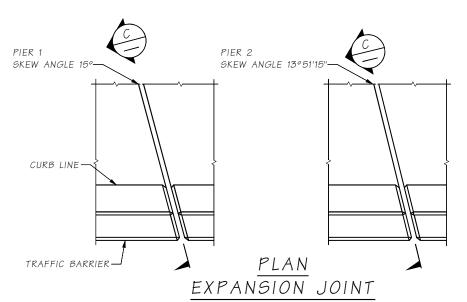
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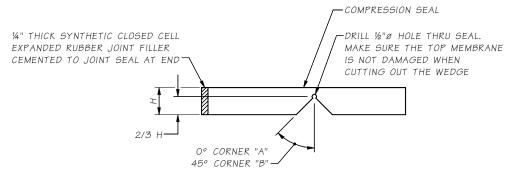




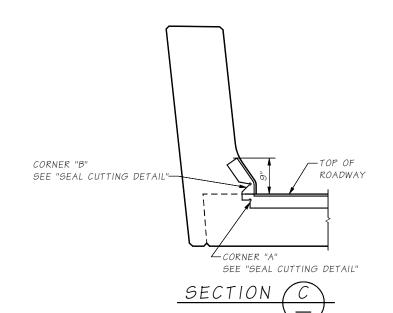
COMPRESSION SEAL DETAIL

EXPANSION JOINT AT BACK OF PAVEMENT SEAT





SEAL CUTTING DETAIL



COMPRESSION SEAL TABLE

	WATSON BOWMAN ACME						
SEAL WIDTH	SEAL	WIDTH					
CV-2502 2½	WA-250	21/2					

TESTING SHALL BE PER ASTM D 2628 PRIOR TO USE.

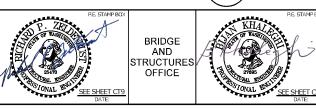
GENERAL NOTES:

- 1. ALL METAL PARTS OF THE APPROACH EXPANSION ANCHOR SHALL RECEIVE ONE COAT OF PAINT CONFORMING TO STANDARD SPECIFICATION SECTION 9-08.1(2)F OR BE GALVANIZED IN ACCORDANCE WITH AASHTO M 232.
- BRIDGE APPROACH SLAB ANCHORS SHALL BE INSTALLED PARALLEL TO ROADWAY AND TO EACH OTHER.

NOTES:

1 FULLY COMPRESSED SEAL HEIGHT, SEAL HEIGHT VARIES WITH MANUFACTURER, VERIFY PRIOR TO SLAB CONSTRUCTION

ž.													
5-3	Bridge Design Engr.	Khaleghi, B		M:\Z−T	eam\I-90 PHASE 3 SPARKS RD WB\wind	ow f	iles\A	PPROAC	H SLAB D	DET 3.wnd			Г
Ξ	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	ĺ
	Designed By	Liu, S	02/21										ĺ
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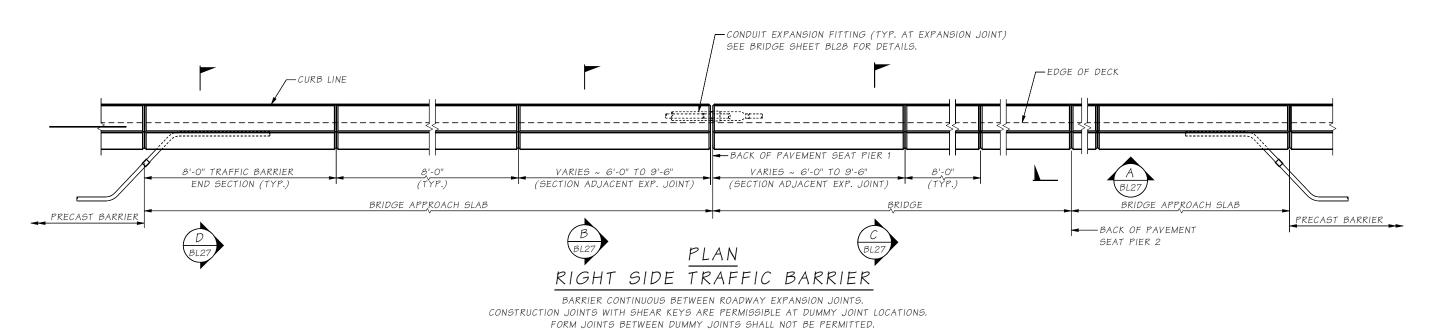
I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N
APPROACH SLAB

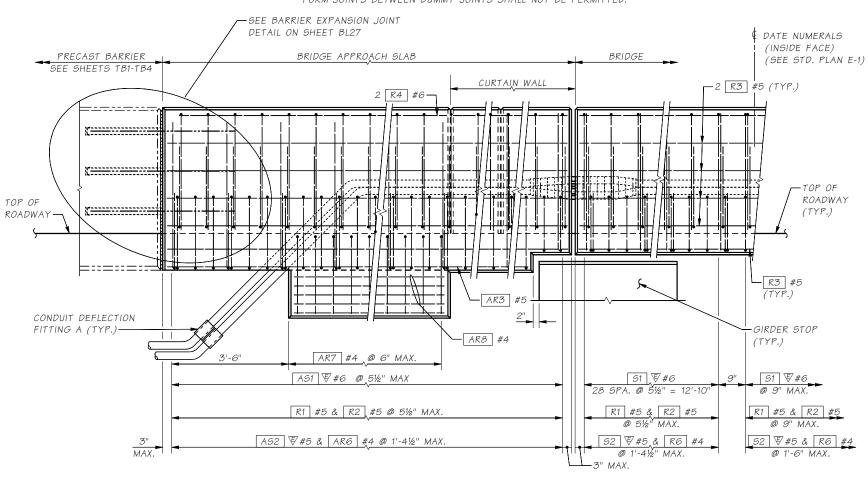
 KS RD BRIDGE WB NO. 90/117N
 1645

 APPROACH SLAB
 0F

 DETAILS 3 OF 3
 1783

 SHETS





OUTSIDE ELEVATION LEFT SIDE TRAFFIC BARRIER

SHOWN WITH BRIDGE APPROACH SLAB

z													
	Bridge Design Engr.	Khaleghi, B		$M: \Z-T$	eam\I-90 PHASE 3 SPARKS RD WB\win	dow :	files∖⊤	RAFFIC	BARRIER	DETAIL 1.wnd			
	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	1
Œ.	Designed By	Barkley, j	02/22										او ا
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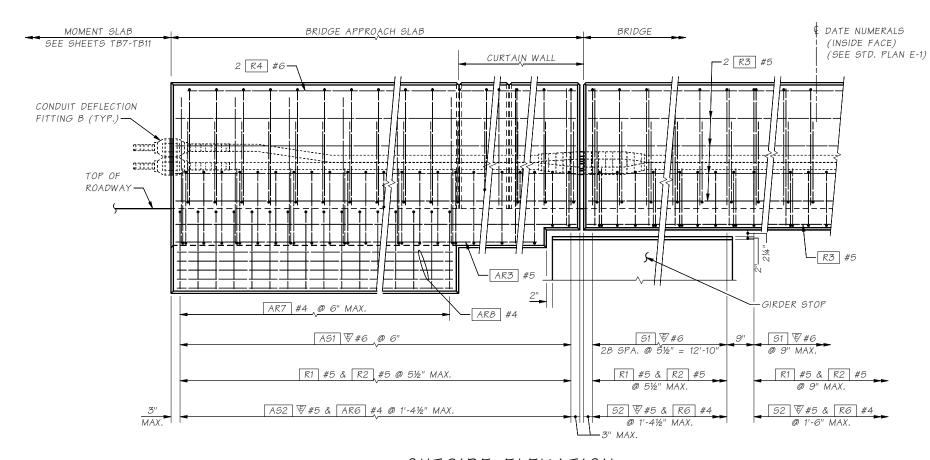
I - 90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N
TRAFFIC BARRIFR

1646 1783 DETAILS 1 OF 4

BARRIER CONTINUOUS BETWEEN ROADWAY EXPANSION JOINTS.

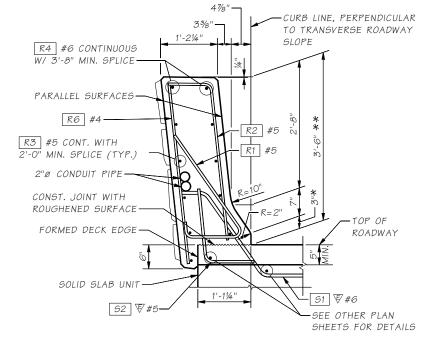
CONSTRUCTION JOINTS WITH SHEAR KEYS ARE PERMISSIBLE AT DUMMY JOINT LOCATIONS.

FORM JOINTS BETWEEN DUMMY JOINTS SHALL NOT BE PERMITTED.



* TOE HEIGHT MAY VARY, 2" MIN TO 6" MAX.

** HEIGHT MAY VARY IF REQUIRED TO PROVIDE A PROFILE PLEASING TO THE EYE.



TYPICAL SECTION TRAFFIC BARRIER

SHOWN ON BRIDGE

OUTSIDE ELEVATION END OF TRAFFIC BARRIER

SHOWN WITH BRIDGE APPROACH SLAB

2													
	Bridge Design Engr.	Khaleghi, B		M:\Z-T	ream\I-90 PHASE 3 SPARKS RD WB\wi	ndow	files\T	RAFFIC	BARRIER	R DET 1.wnd			
1	Supervisor	Zeldenrust, RP						REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	İ
٠.	Designed By	Liu, S	02/21										ĺ
3	Checked By	Barkley, J	01/22					10	WASH.				
-	Detailed By	∪hde, ⊤	02/21					TOP	NUMBER				
1	Bridge Projects Engr.								Y007				10
4	Prelim. Plan By	<u> </u>						_	RACT NO.				<i>'</i>
	Architect/Specialist			DATE	REVISION	BY	APP'D]					l



BRIDGE AND STRUCTURES OFFICE



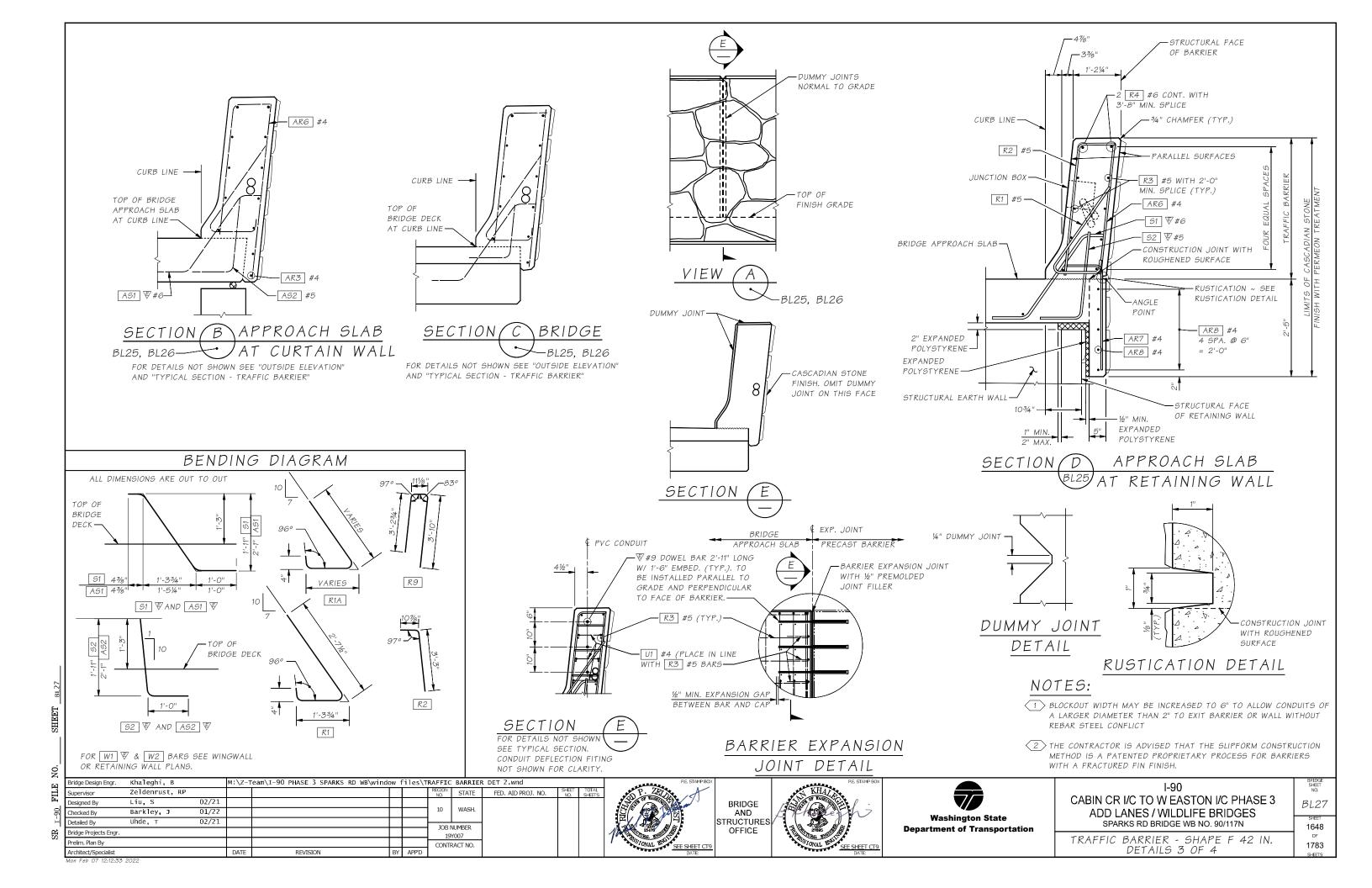
I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

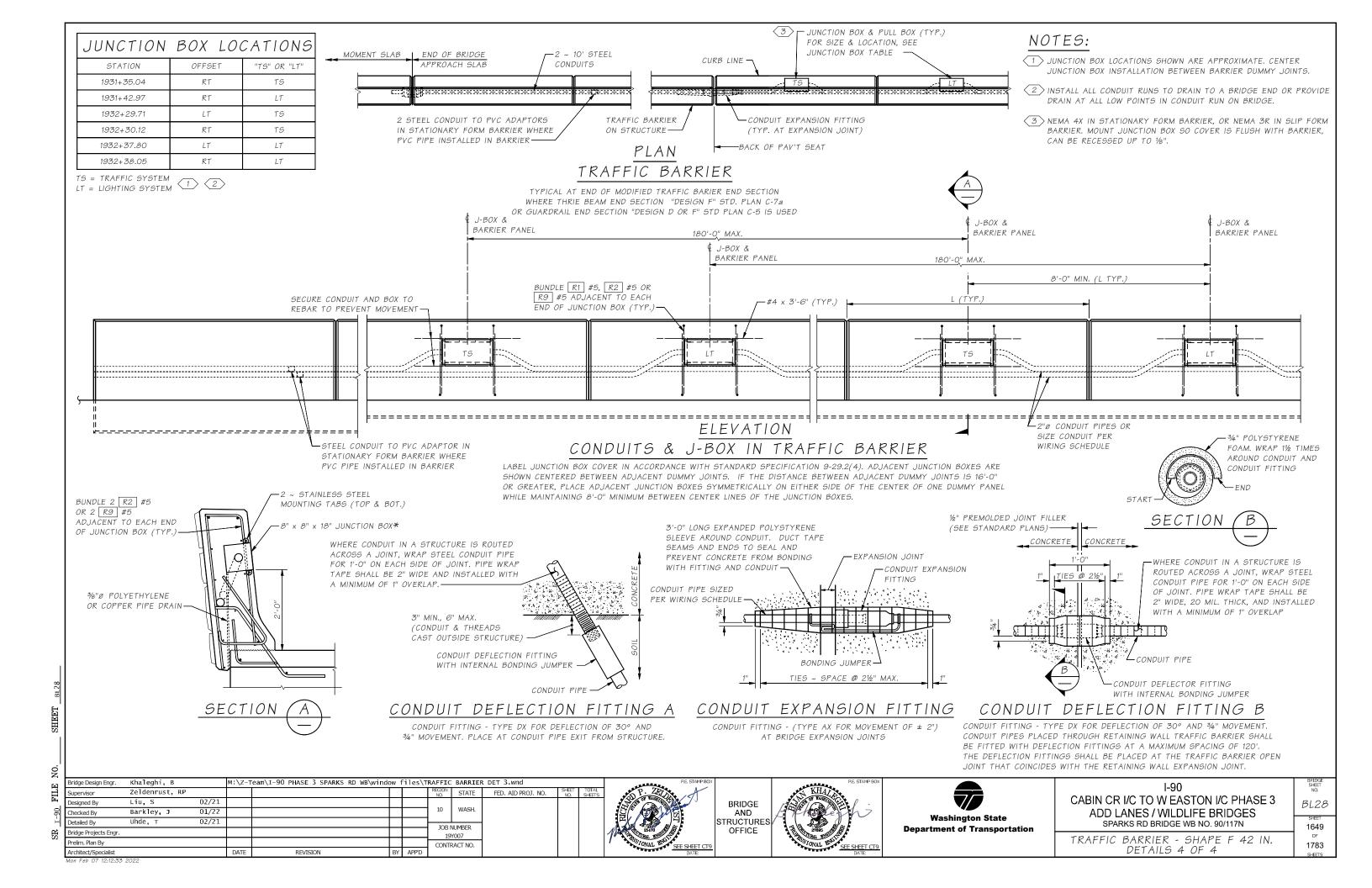
TRAFFIC BARRIER - SHAPE F 42 IN.
DETAILS 2 OF 4

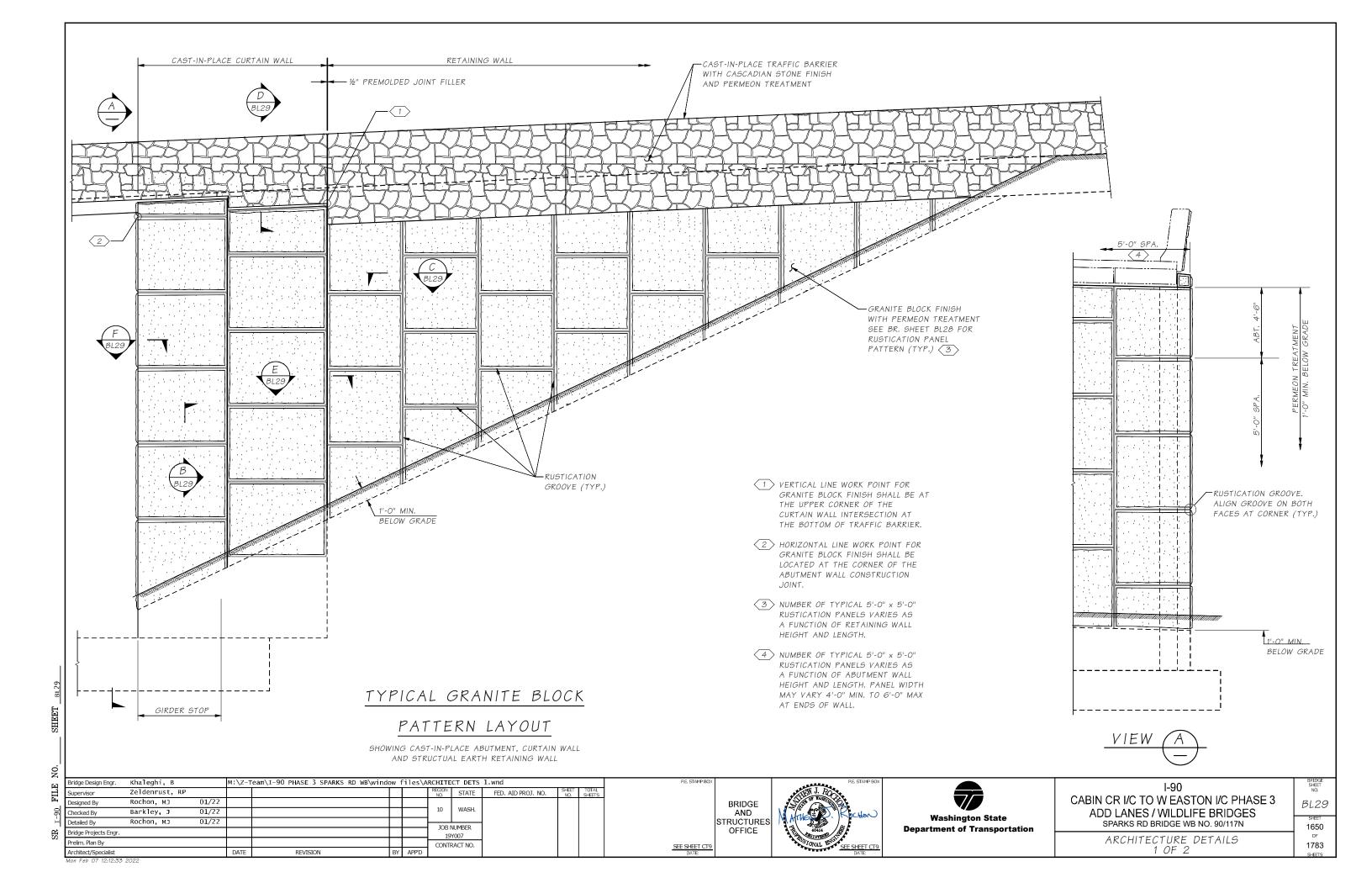
 SR_{1-90} FILE NO.

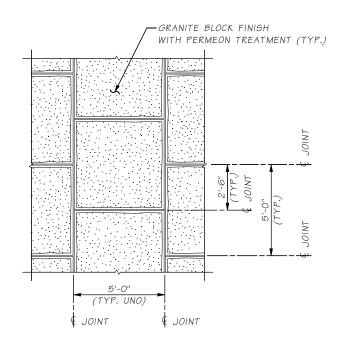
Mon Feb 07 12:12:32 2022

BL26
SHEET
1647
OF
1783



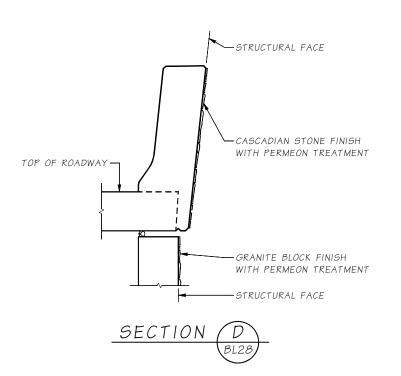


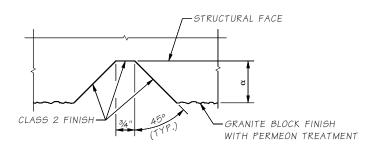




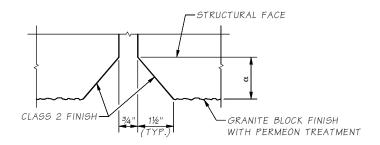
RUSTICATION PANEL PATTERN

TYPICAL FOR S.E.W. PRECAST PANELS.
CAST-IN-PLACE CURTAIN WALL SIMILAR.



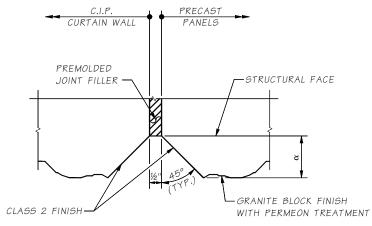


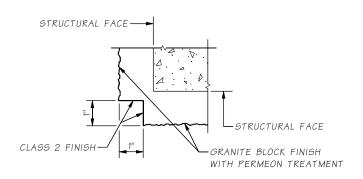
SECTION B
CAST-IN-PLACE RUSTICATION
GROOVE TYPICAL FOR VERTICAL
AND HORIZONTAL APPLICATIONS



SECTION C
PRECAST RUSTICATION GROOVE BL28
TYPICAL FOR VERTICAL
AND HORIZONTAL APPLICATIONS

CONCRETE SURFACE VARIES IN DEPTH DEPENDING ON FORMLINER MANUFACTURERS AMPLITUDE ± APPROXIMATELY 134"





SECTION E

CAST-IN-PLACE & PRECAST BL28

CORNER GROOVE

SECTION	F
CAST-IN-PLACE CORNER GROOVE	BL28

Ζ.													
÷1	Bridge Design Engr.	Khaleghi, B		M:\Z−T	Team\I-90 PHASE 3 SPARKS RD WB\windo	ow f	iles\A	RCHITE	CT DETS	2.wnd			
∃	Supervisor	Zeldenrust, RP				П		REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS	
	Designed By	Rochon, MJ	01/22										
8	Checked By	Barkley, J	01/22					10	WASH.				
$\dot{\vdash}$	Detailed By	Rochon, MJ	01/22					TOP N	NUMBER				
ř	Bridge Projects Engr.								YOO7				
,,	Prelim. Plan By								RACT NO.				
	Architect/Specialist			DATE	REVISION	BY	APP'D						
	Mon Feb 07 12:12:34	2022											

BRIDGE AND STRUCTURES OFFICE





I-90
CABIN CR I/C TO W EASTON I/C PHASE 3
ADD LANES / WILDLIFE BRIDGES
SPARKS RD BRIDGE WB NO. 90/117N

ARCHITECTURE DETAILS 2 OF 2 1651 OF 1783 SHEETS

